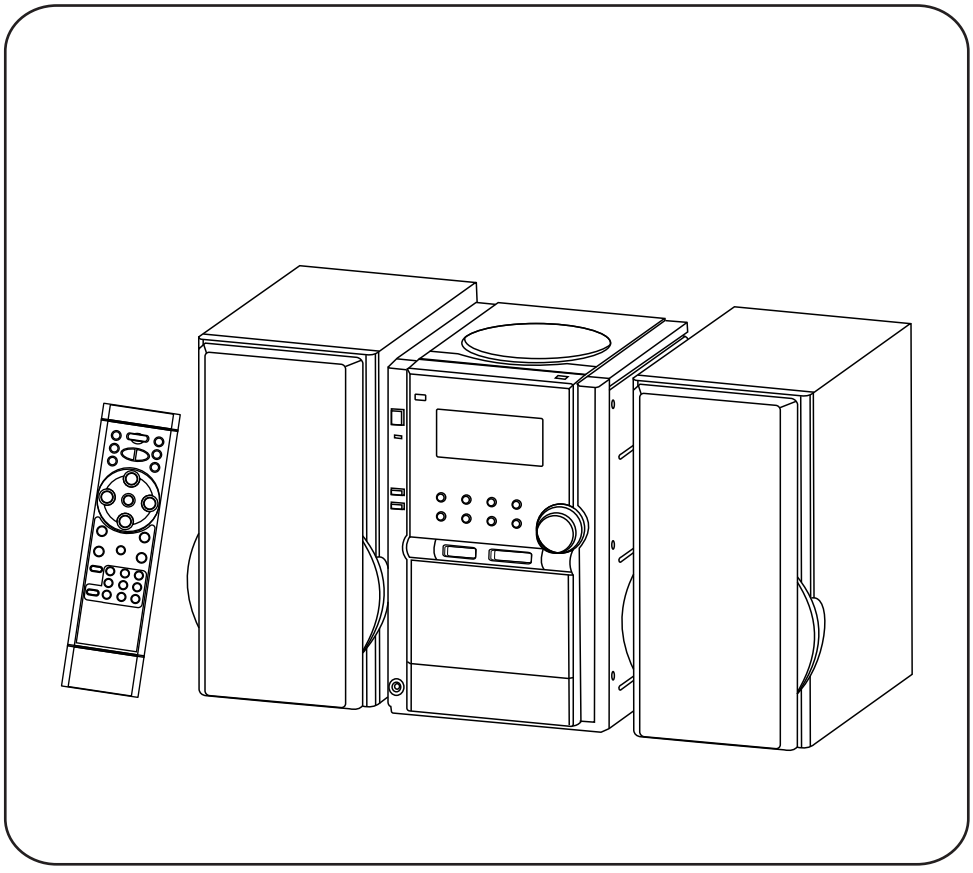
SERVICE MANUAL

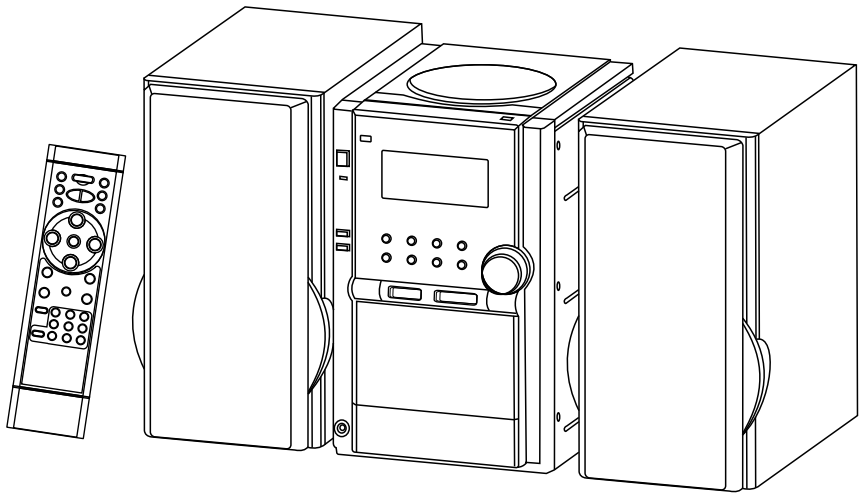
HIF-6880USMPT



Service Manual

CAUTION: Before servicing the chassis, read the " important service safety information" section on page 2 of this manual.

PORTABLE RADIO CASSETTE WITH CD&MP3 PLAYER



SPECIFICATIONS

AM/FM TUNER SECTION

ANTENNA SYSTEM	AM: FERRITE BAR FM: LEAD WIRE AND
TUNING RANGE	AM: 522 - 1620 kHz FM: 87.5 - 108 MHz

AUDIO SECTION

SPEAKER IMPEDANCE	: 4 OHM
GENERAL	: 5W x 2
POWER INPUT	: ~AC 230V-50Hz

AC POWER CONSUMPTION

MAIN DIM	: 160(L)x230(W)x 260(H)mm
SPEAKER DIM	: 133(L) x195(W) x257.5(H)mm
WEIGHT	: 7.4Kg

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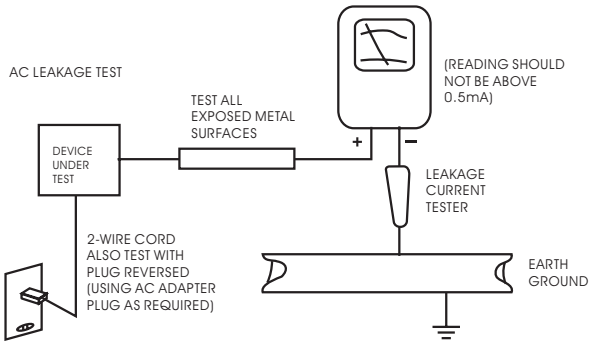
SERVICE PUBLICATION

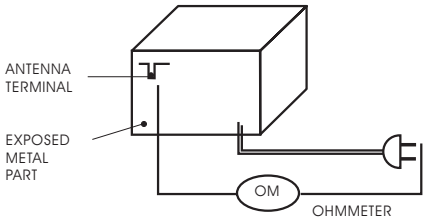
NOTE: All the specifications and features are subject to change without notice.

IMPORTANT SERVICE SAFETY INFORMATION

1. SAFETY PRECAUTIONS
   Before returning a unit to the customer, always make a safety check of the entire unit, including, but not limited to the following items:
   a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing.
   (1)protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields including any removed for servicing convenience.
   (2)when reinstalling the chassis and/or other assemblies in the cabinet, be sure to put back in place all protective devices, including , but not limited to , nonmetallic control knobs, insulating fishpapers. adjustment and compartment covers/shields and isolating resistor/ capacitor networks. Do not operate this or permit it to be operated Without all protective devices correctly installed and functioning .
   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.
   c. Leakage current hot check - with the unit completely reassembled ,plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National standards Institute (ANSI) C101.1"Leakage Current for Appliances "and Underwriters Laboratories(UL) 1410 (50.7). WITH THE UNIT AC switch first in the ON position And then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) To all exposed metal parts of the Unit (antennas, handle bracket, metal cabinet, screw heads , metallic overlays, control shaft, etc.) Especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp, reverse the unit power cord plug in the outlet and repeat test .
   ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HERENING INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED RETURNING THE UNIT TO THE CUSTOMER.


AC LEAKAGE TEST
TEST ALL EXPOSED METAL SURFACES
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
+
−
LEAKAGE CURRENT TESTER
2-WIRE CORD ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

   d. Insulation resistance test cold check:
   unplug the power supply cord and connect a jumper wire between the two prongs of the plug .
   Turn on the power switch of the unit.
   Measure the resistance with an ohmmeter between jumpered AC PLUG AND EACH Exposed metallic cabinet part on the unit, such as screw heads, antenna, control shafts, handle brackets, etc. When the exposed metallic part has a return path to the chassis , the reading should be between 1 and 5.2 megohms. When there is no return path to the chassis, the reading must be " infinite" . If it is not within the limits specified, there is the possibility of a shock hazard, and the unit must be repaired and rechecked before it is returned to the customer.

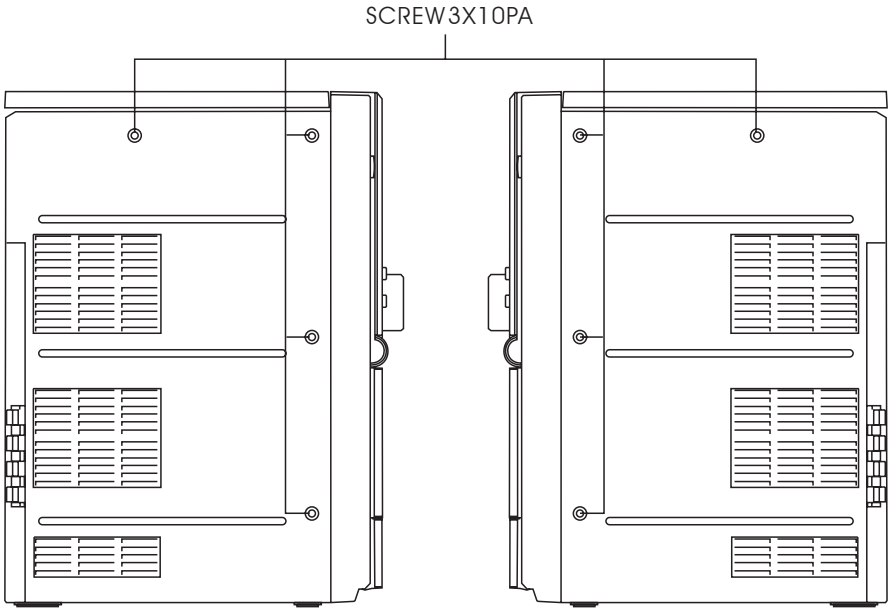


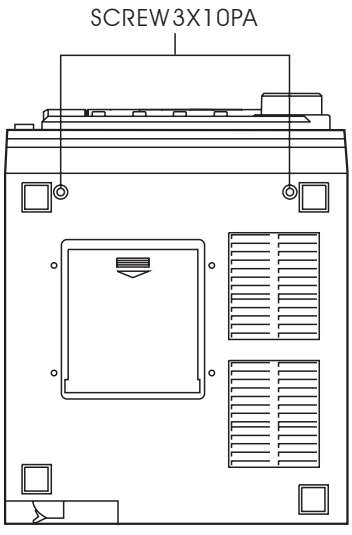
2. PRODUCT SAFETY NOTICE
   some electrical and mechanical parts have special safety related characteristics which are often not evident from visual inspection. Nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage , wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematic and parts list. Use of a substitute replacement that dose not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever Appropriate.
3. Servicing precautions
   CAUTION: before servicing the unit covered by this service by this service manual and its supplements. Read and follow the SAFETY PRECAUTIONS on this page.
   NOTE: if unforeseen circumstances create a conflict between the following servicing precautions and any of the Safety precautions, always follow the safety precautions. Remember: safety first.
   General servicing precautions.
   a. Always unplug the unit ' s AC power cord from the AC power source Before:
   (1)removing or reinstalling any component, circuit board, module or any other unit assembly.
   (2)disconnecting or reconnecting any unit electrical plug or other Electrical connection.
   (3)connecting a test substitute in parallel with an electrical capacitor caution: a wrong part substitution or incorrect polarity installation Of electrolytic capacitors may result in an explosion hazard
   b. Do not defeat any plug/socket b+ voltage interlocks with which the unit covered by this service manual might be equipped.
   c. Do not apply AC power to this unit and/or any its electrical assemblies unless all solid-state device heat sinks are correctly installed.
   d. Always connect a test unit instrument ' s ground lead to the unit ' s chassis ground before connecting the test instrument ' s positive lead always remove the test instrument ' s ground lead last.
4. Laser precautions
   Warning!
   (1)When servicing.(Incase it isnecessary to confirmlaser Beam emission) besure not toplace your eyesany closer than1or 30cm from thesurface of the objective lens on the optical pickup block.
   HANDLING THE LASERPICKUP
   (2)Laser Diodesare Extremely Susceptibleto damage from static electricity even ifa static dischargedies not ruin the diode, itcan shorten its lifeor cause itto work improperly.When replacing the pickup, usea conductive maton the floorand desk andwear a wrist band connected to groundthrough a 1Mohm resistor to protect the laserdiode from staticdamage. If thelens should get dusty, blow off thedust carefully fromthe object.
   (3)There areno adjustable partsin the pickupassembly. If it is defective, replace the wholepickup assembly.

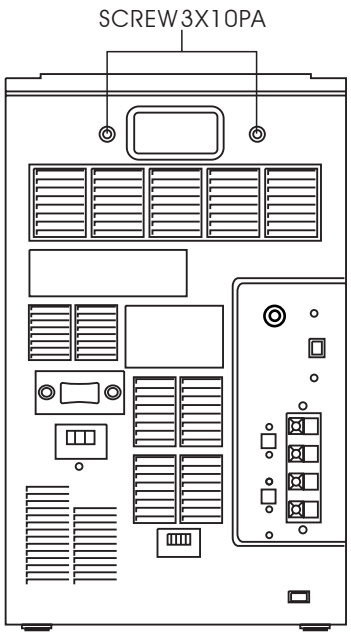
CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DANGER: IF INTERLOCK FAILS OR IS DEFEATED, THE LASER LIGHT IS ABLE TO FUNCTION. THE LASER IS INVISIBLE, AVOID DIRECT EXPOSURE TO BEAM.

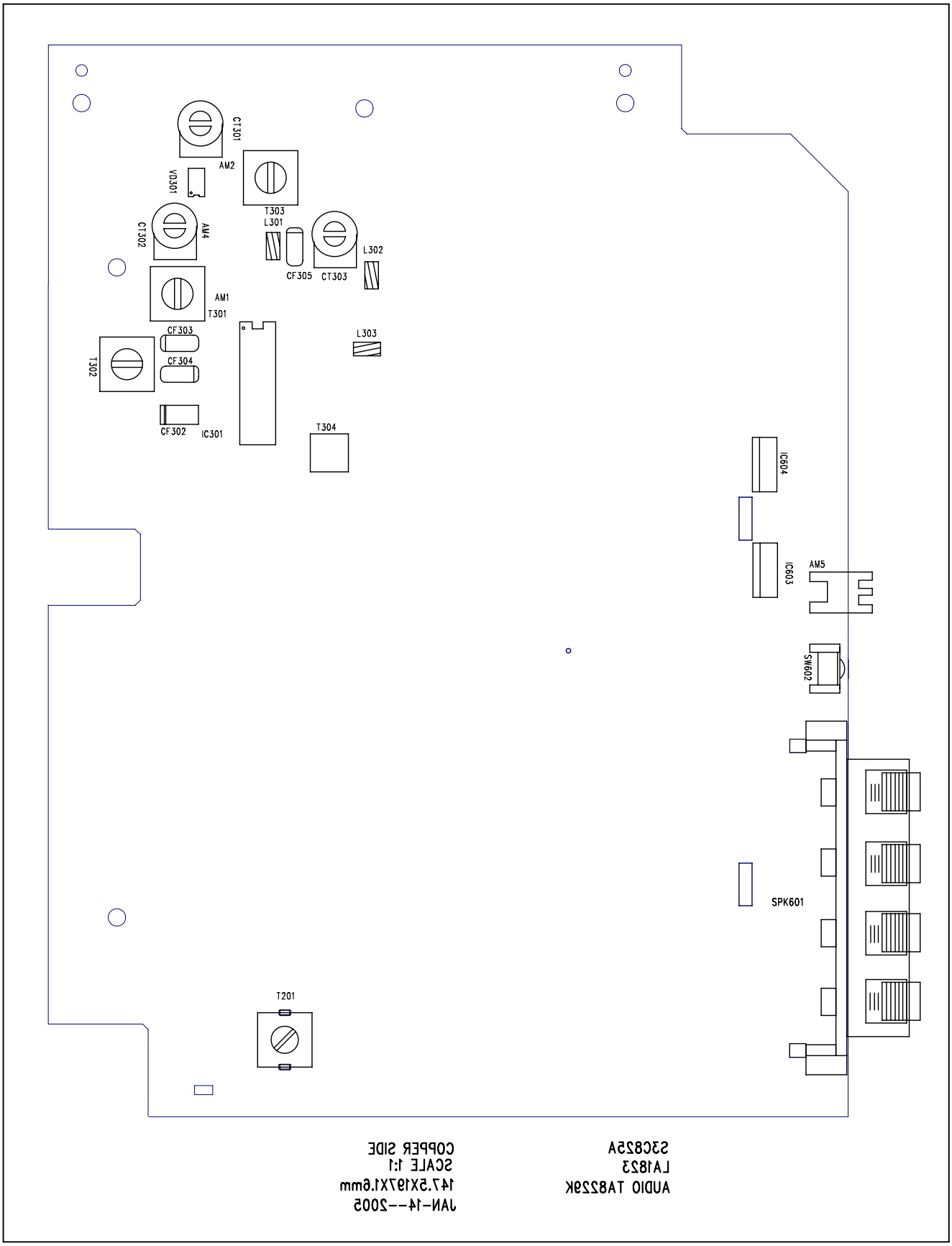
DISASSEMBLY INSTRUCTIONS







ADJUSTMENT LOCATIONS



CASSETTE SECTION **NE-562MP3** **DATE:12-ARP-2004**

STEP	ITEM	TEST EQUIPMENT	TEST TAPE	ADJUST	REMARK
1	MOTOR SPEED ADJ. & WOW/FLUTTER CHECK	WOW/FLUTTER METER WITH FREQ. COUNTER CONNECT TO SPEAKER OR DUMMY LOAD	MTT-111N (3KHz)	(1)CHECK MOTOR SPEED TO 3KHz +3%-2%	TAPE POSITION
2	HEAD AZIMUTH	AC VOLT METER OSCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD	MTT-113N (6.3KHz)	ADJUST THE R/P HEAD SCREW FOR MAX OUTPUT	TAPE POSITION
3	PLAYBACK FREQ RESPONSE	SAME AS ABOVE	MTT-257	CHECK FREQ RESPONSE TO MEET SPECIFICATION	TAPE POSITION
4	RECORDING	AC VOLT METER OCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD FM SIGNAL GEN CONNECT TO ANT. INPUT 1mV,40KHz DEV.	BLANK TAPE	RECORED & PLAYBACK FORM FM SIGNA TO MEET SPECIFICATIONS: REC LEVEL, DISTORTION & FREQ. RESPONSE	TAPE POSITION

CASSETTE SECTION **NE-562MP3** **DATE:28-JUL-2004**

STEP	ITEM	TEST EQUIPMENT	TEST TAPE	ADJUST	REMARK
1	MOTOR SPEED ADJ. & WOW/FLUTTER CHECK	WOW/FLUTTER METER WITH FREQ. COUNTER CONNECT TO SPEAKER OR DUMMY LOAD	MTT-111N (3KHz)	(1)CHECK MOTOR SPEED TO 3KHz +3%-2%	TAPE POSITION
2	HEAD AZIMUTH	AC VOLT METER OSCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD	MTT-113N (6.3KHz)	ADJUST THE R/P HEAD SCREW FOR MAX OUTPUT	TAPE POSITION
3	PLAYBACK FREQ RESPONSE	SAME AS ABOVE	MTT-257	CHECK FREQ RESPONSE TO MEET SPECIFICATION	TAPE POSITION
4	RECORDING	AC VOLT METER OCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD FM SIGNAL GEN CONNECT TO ANT. INPUT 1mV,40KHz DEV.	BLANK TAPE	RECORED & PLAYBACK FORM FM SIGNA TO MEET SPECIFICATIONS: REC LEVEL, DISTORTION & FREQ. RESPONSE	TAPE POSITION

MODEL:HIF-6880USMPT

– FM AND AM RF ALIGNMENT CHART (IF) Date:

Step	item	Input Circuit Setup	Output Circuit Setup	Tuner setting	Adj - Point	Adjustment
Unless otherwise specified set switches as follows: FM Function: FM Adjust generator frequency to a center of the FM band where no FM broadcast exists						
1	IF Adjustment	Connect FM IF sweep output terminal to IC302	Connect Co19 and GND IF-OUT terminal to IF sweep input terminal	FM in band end	T304	Adjust for straight and symmetrical S-curve with max.amplitude.
2	FM Band setup		Headphone jack or speaker terminal	87.5 MHz	L303	Adjust L301 for max output
				108MHz		Done
3	Tracking (1)	FM SG ANT. Terminal 90.1 MHz, 1kHz, +-22.5kHz dev	Headphone jack or speaker terminal	90.1 MHZ MONO	L302	Adjust for max.output and best waveform
4	Tracking (2)	106.1 MHz, 1 kHz +-22.5 MHz dev	Headphone jack or speaker terminal	106.1 MHz	CT303	Same as above.
5	Repeat steps 3 and 4.					
MW						
1	IF Adjustment	Connect standard loop antenna to output ter-minal of genescope	Connect input terminal genescope to detector output	MW in band end	T302	Adjust tor max. amplitude with symmetrical 450 kHz.
2	MW Band		Headphone jack or speaker terminal	522 kHz	T301	Adjust L135 for max output
				1620 kHz	CT302	Adjust CT133 for max output
3	Tracking (1)	612 kHz 400 kHz, 3% mod	Headphone jack or speaker terminal	612 kHz	T303	Adjust for max.output and best waveform
4	Tracking (2)	1404 kHz 400 kHz, 3% mod	Headphone jack or speaker terminal	1404 kHz	CT301	Same as above.
5	Repeat steps 3 and 4.					

– TAPE SECTION

HEAD ADJUSTMENT (AZIMUTH)

10 kHz test tape (example:MTT-114N) must be used for this adjustment. Connect to VTVM or oscilloscope to the head-phone JCK or speaker terminal Press the play button.

Adjust the azimuth by using a screw driver to maintain the maximum L & R output voltage. Adjust tape. Please secure the azimuth position by using locking paint.

RECODING BIAS OSCILLATOR FREQUENCY ADJUSTMENT

Connect the frequency counter to of R601 two ends.

Press REC button of tape .

Adjust T201 obtain 60 kHz +-100 HZ

FM RECEIVER PERFORMANCE DATA

MODEL: NE-563PLL+MP3 (5W) Date:

Band: FM

Supply Voltage: AC 230 V Measured By: _____

Standard Output: 50 mw

Dummy Load: 4 ohm Approved By: _____

Modulation: 1 KHz 22.5 KHZ DEV

EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Frequency Range	Low	MHz	87.5	+/-0.3		
	High	MHz	108	+/-0.3		
IF Frequency		MHz	10.7	+/-0.2		
30db Quieting	90.1 MHz	db	18	26		
Sensitivity	98.1 MHz	db	18	26		
	106.1 MHz	db	18	26		
Auto Locked	90.1 MHz	db	26	32		
Sensitivity	98.1 MHz	db	26	32		
	106.1 MHz	db	26	32		
ACA	+300 KHz	db	20	15		
(2-Signal)	-300 KHz	db	20	15		
Image Rejection	AT 106.1 MHz	db	22	16		
IF Rejection	AT 90.1 MHz	db	50	40		
-3db Limiting Sens .	1mv I/P	db	18	26		
AM Suppression	1mv I/P	db	35	30		
S/N (1mv input	Mono	db	50	45		
W/A-Fliter)	Stereo	db	35	30		
Stereo Sens		db	20	26		
Stereo Lamp On Sens.		db	20	26		
Separation R/L		db	25	20		
Freq.Response-3db	Low	Hz	80	≦100		
(W/50uS Pre-emphasis)	High	KHz	10	≧8		
Modulation Hum	1 mv I/P	db	40	35		
Hum & Noise(min.vol.)		mv	1	3		
Output (10% Dist) (MOD=40KHz)		mW	4500	4000		
Total Harmonic Distortion	1 mv I/P	%	1	3		
OSC Drop Out	1 mv I/P	V				
Current	No signal	mA				
Consumption	Max	mA				

MW RECEIVER PERFORMANCE DATA

MODEL: NE-563PLL+MP3 (5W) Date:

Band: MW

Supply Voltage: AC 230 V Measured By: _____

Standard Output: 50 mw

Dummy Load: 4 Ohm Approved By: _____

Modulation: 1 KHz 30%

EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Frequency Range	Low	KHz	522	+/-10		
	High	KHz	1620	+/-10		
IF Frequency		KHz	450	+/-2		
20db Quieting Sensitivity	612 KHz	dB/M	60	66		
	999 KHz	dB/M	60	66		
	1404 KHz	dB/M	60	66		
Auto Locked Sensitivity	612 KHz	dB/M	66	70		
	999 KHz	dB/M	66	70		
	1404 KHz	dB/M	66	70		
S/N 5mv/M		dB	35	30		
ACA	+9 KHz	dB	18	12		
	-9 KHz	dB	18	12		
Band Width-6dB	+Side	KHz	3	10		
	-Side	KHz	3	10		
Image Rejection	AT 1404 KHz	dB	35	30		
IF Rejection	AT 612 KHz	dB	50	40		
Spuerious Response	4-10MHz	dB	40	35		
	10-30MHz	dB	50	45		
AGC FOM-10db	100mv/M	dB	45	35		
Audio Freq. Response-6db	Low	Hz	80	≦100		
	High	KHz	2.4	≧2.0		
Modulation Hum	100 mv/M	dB	38	32		
Hum (Volume At Min)		mv	1	3		
Output (10% Dist) (MOD=80%)		mW	4500	4000		
Total Harmonic Distortion	5mv/M	%	2	4		
OSC Drop Out	5mv/M	V				
Current Consumption	No signal	mA				
	Max	mA				

CASSETTE PLAYBACK PERFORMANCE DATA

MODEL: NE-563 PLL&MP3 (5W) Date:

Supply Voltage: AC 230 V
Standard Output: 50 mw Measured By: _____
Dummy Load: 4 Ohm
0DB=1V Approved By: _____
EQ or Tone at Flat Place Bass OFF Place
Tape Speed 4.76cm/sec.1 $^{7}/_{8}$ I n

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Tape Speed Enor	at 3 KHz	%		+3/-2		
WOW & Flutter	at 3 KHz	%	0.25	0.35		
Play Freq Response	at Hz	dB				
	at 125 Hz	dB	+/-3	+/-6		
	at 1 KHz	dB	0	0		
	at 10 KHz	dB	+/-3	+/-6		
	at KHz	dB				
P/B S/N (1K odB)	DC Opetation	dB				
	AC Optetaion	dB	45	40		
Min Vol Hum & Noise	AC Optetaion	mv	1	3		
Max Vol Hum & Noise	AC Optetaion	mv	20	30		
10% THD Output	(1KHz odB) RMS	mw	4500	4000		
THD	at Hz	%				
-10dB 1KHz	at 1 KHz	%	1	3		
	at KHz	%				
Track Crosstalk		dB	40	30		
Channel Separation	R-L	dB	40	30		
	L-R	dB	40	30		
Channel Balance	-10dB 1KHz	dB	1	3		
No Signal Current	Min. Vol. Blank Tape	mA				
Max Output	Max. Vol	A				
Play Torque		g/cm				
F.F Torque		g/cm				
Rew Torque		g/cm				
Time for Play		Min				
Time for F.F		Sec				
Time for Rew		Sec				
Play Level	Tape = 0dB Ref	dB	0	0		
CD Play	1KHz-10dB	dB	-2	- 4		
Radio	FM 1KHz 40KHz	dB	+/-1	+/-3		

CASSETTER REC/PLAY PERFORMANCE DATA

MODEL: NE-563 PLL&MP3 (5W) Date:

Supply Voltage: AC 230 V
Standard Output: 50 mw Measured By: _____
Dummy Load: 4 Ohm
0DB=1V Approved By: _____
EQ or Tone at Flat Place Bass OFF Place
Tape Speed 4.76cm/sec.1 $^{7}/_{8}$ I n

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Rec Blas System AC		KH z	55	60		
Erasing System Magnet			6PA			
Erasing Ratio		dB	38	33		
ALC Compresion Time for 20db		dB				
Stansatding up for -20db at 90%		Sec				
Recovery time for -20db at 90%		Sec				
R/P Frep Response	at 100 Hz	dB	+/-3	+/-6		
REC CD(-20dB)	at 1 KHz	dB	0	+/-3		
	at 10 KHz	dB	+/-3	+/-6		
R/P S/N	Built Mic	dB				
	FM 1mv/in	dB	38	33		
R/P THD	at -10dB 1KHz	%	5	10		
R/P Channal Separation	L-R	dB	40	30		
(1KHB 0dB)	R-L	dB	40	30		
Record Level Tape = -10dB		dB	0	0		
CD 1KHz -20dB		dB	+/-2	+/-4		
Radio FM 1KHz 12.5KHz		dB	+/-2	+/-4		
Remote Control Sensitivity		m	7	5		
Headphone Out Level (32 ohm)		mW	20	15		
Bass Tone Action	at Hz	dB				
Prest EQ REF O/P 0dB PASS						
CLASSIC	100 Hz	dB	+4	+/-2		
	1K Hz	dB	+3	+/-2		
	10K Hz	dB	+8	+/-2		
ROCK	100 Hz	dB	+8	+/-2		
	1K Hz	dB	+3	+/-2		
	10K Hz	dB	+6	+/-2		
POP	100 Hz	dB	- 4	+/-2		
	1K Hz	dB	- 2	+/-2		
	10K Hz	dB	- 4	+/-2		
JAZZ	100 Hz	dB	+6	+/-2		
	1K Hz	dB	+2	+/-2		
	10K Hz	dB	+4	+/-2		

NELSON ELECTRONICS LTD

CD PLAYBACK PERFORMANCE DATA

MODEL: NE-563 PLL+MP3 (5W) Date:

Supply Voltage: AC 230 V

Standard Output: 50 mw Measured By: _____

Dummy Load: 4 Ohm

0dB=1V Approved By: _____

EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
WOW & Flutter		%				
Play Freq Response	at 40 Hz	dB	- 2	+/-3		
(0dB)	at 61 Hz	dB	- 1	+/- 2		
	at 127 Hz	dB	0	+/-2		
	at 1 KHz	dB	0	0		
	at 10 KHz	dB	0	+/-2		
	at 20 KHz	dB	-3	- 5		
P/B S/N (YEDS)	DC Opetation	dB				
	AC Optetaion	dB	55	50		
Hum & Noise	Min Vol	mv	2	3		
(AC Optetaion)	Max Vol	mv	5	8		
10% THD Output RMS		mw	4500	4000		
THD (-20dB)	at 1 KHz	%	1	3		
Channel Separation	R-L	dB	40	30		
YEDS (0dB)	L-R	dB	40	30		
Channel Balance (1KHz -10dB)		dB	1	3		
Black Spot	PHILIPS-444A	UM	800	600		
Finger Prints	PHILIPS-444A	TRACK	19	18		
Interruption	PHILIPS-444A	UM	800	600		
Deflection	731RA	MM	1	0.9		
Eccentricity	712R	UM	210	140		
Access Operation	First	Sec				
Time	Last	Sec				
MP3 PLAYBACK PERFORMANCE DATA						
MP3 Playback Transfer Rate		kbps	8~384			
MP3 Max Readable Folder		Folde	200			
MP3 Max Readable Files		File	500			
MP3 Sampling Frequency		KHz	32/44.1/48; 16/22.05/24; 8/11.025/12.			

IC VOLTAGE TABLE

{DC12V,NO SIGNAL INPUT (EXCEPT FM STEREO BAND),VOLUME MINMUN}

AC 230V 50HZ LA1823 &LC72131 & AN7312 & PT2313L

MODEL : NE-562MP3 5W TA8229K & PT2221 & S3C825AX27

TUNER LA1823+LC72131 S1l9226X01 & KA9259D & S5L9279X01 & JF1M16SDT-7

IC302 LA1823	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	AM	1.27	1.27	4.61	4.61	2.62	0	0.02	3.38	4.5	1.29	1.28	0.35	4	0.03	0.15	0.74
	FM	1.29	1.29	4.43	4.43	2.16	0	0.02	3.38	4.42	1.29	1.28	0.3	3.67	3.74	3.7	0.73
	FM.ST	1.29	1.29	4.43	4.43	2.16	0	0.02	3.38	4.42	1.29	1.28	0.3	3.67	3.74	3.7	0.73
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**								
	AM	0.74	1.25	0.32	4.61	4.61	4.61	0	0								
	FM	0.74	1.25	1.39	4.47	4.46	4.39	0	0.91								
	FM.ST	0.74	1.25	1.39	4.47	4.36	4.39	0	0.91								

IC301 LC72131	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	AM	**2.25**	**0**	**0**	**3**	**3**	3.64	**3.78**	**3.78**	**0**	**0.02**	4.45	**0.3**	**0**	**0**	**0**	**0.22**
	FM	**2.19**	**0**	**0**	**0.2**	**3**	3.64	**3.9**	**0.02**	**0**	**0.02**	4.45	**0**	**0**	**0**	**0.3**	**2.18**
	FM.ST	2.2	0	0	0.2	3	3.64	3.79	3.79	0	**0.02**	4.45	0	0	0	0.2	2.18
	PINS	**17**	**18**	**19**	**20**	**21**	**22**										
	AM	4.5	0.82	0.82	3.1	**0**	2.3										
	FM	4.5	0.82	0.82	3.1	**0**	2.3										
	FM.ST	4.5	0.82	0.82	3.1	0	2.3										

IC201 AN7312	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	
	TAPE	0	1	0	3	1.4	1.3	0	0	1.3	1.4	3	0	6	6	

IC602 PT2313L VOLUM EQ FUN	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	RADIO	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	CD	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	TAPE	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**				
	RADIO	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				
	CD	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				
	TAPE	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				

IC601 TA8229K	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
	POWER	0	16.8	9	17.5	9.1	17	0	17.2	9.1	0.5	0	0	0.6	0	0

U7 SDRAM 16M	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	DRAM	3.41	2.52	2.42	0	2.2	2.21	3.41	2.2	2.2	0	2.19	2.2	3.41	0	3.41	3.41
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	DRAM	3.41	0	0	3.41	0	0	0	0	3.41	0	0	0	0	0.21	3.41	0
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	DRAM	0.11	1.69	3.41	0	3.41	2.44	2.45	0	2.41	2.45	3.41	2.43	2.44	0	2.43	2.45
	PINS	**49**	**50**														
	DRAM	2.45	0														

U2 S3C825A	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	RADIO	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	CD	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	TAPE	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	AUX	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	RADIO	1.08	1.36	2.87	0	0	0.86	0.3	0.08	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	CD	1	1.36	2.87	0	0	2.87	2.87	2.87	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	TAPE	1	1.36	2.87	0	0	2.87	0.3	0.25	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	AUX	1	1.36	2.87	0	0	2.87	0.3	0.25	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	RADIO	0	**0**	0	0	**2.86**	**1.81**	2.86	**0**	**0**	**0**	**0**	**2.73**	**2.73**	**3.4**	**3.54**	**2.91**
	CD	0	2.88	0	0	**2.86**	**1.81**	2.86	0	0	2.79	0	0	0	0.06	0.3	**2.91**
	TAPE	0	0	0	0	**2.86**	**1.81**	2.86	0	0	0	0	**2.73**	**2.73**	0.03	0.7	**2.91**
	AUX	0	0	0	0	**2.86**	**1.81**	2.86	0	0	0	0	**2.73**	**2.79**	0.03	0.7	**2.91**
	PINS	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
	RADIO	**0**	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	CD	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	TAPE	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	AUX	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	PINS	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
	RADIO	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	CD	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	TAPE	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	AUX	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**

U5 KA9259D	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	MOTOR	3.7	3.7	1.69	1.69	7.38	4.99	4.99	0	1.69	1.69	3.7	3.72	0	0	3.72	3.72
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**				
	MOTOR	3.72	3.72	1.69	4.32	8	0	1.69	1.69	1.69	3.72	3.72	0				

U3 S5L9279	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	DSP	1	2.07	0	0	0	2.07	0	0	1.7	1.69	3.38	3.38	1.69	0	0	0
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	DSP	3.38	1.66	0	0	0	0	0	3.38	0	0	0	0	0	3.38	0	0
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	DSP	**0**	**0**	**3.38**	**0**	**0**	**3.31**	**3.37**	**3.38**	**0**	**2.07**	**0**	**2.45**	**2.46**	**2.51**	**2.46**	**2.48**
	PINS	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
	DSP	**2.46**	**2.48**	**2.09**	**0**	**0**	**2.4**	**2.82**	**2.62**	**2.7**	**0.77**	**0.73**	**0.36**	**2.76**	**2.07**	**0**	**1.13**
	PINS	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
	DSP	**0**	**2.76**	**1.72**	**3.38**	**3.38**	**0**	**3.38**	**0**	**0**	**3.38**	**3.38**	**1.69**	**0**	**0**	**0**	**0**
	PINS	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
	DSP	0	0	1.61	1.7	2.07	0	2.88	0	2.75	1.63	0	0.06	0	0	0	0
	PINS	**97**	**98**	**99**	**100**												
	DSP	0	0.07	1.69	0												

U1 S1L9226	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	SSP	1.71	1.75	1.69	1.52	1.7	3.38	1.7	0.82	1.69	1.68	1.72	1.63	3.38	2.79	2.82	2.87
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	SSP	2.87	0.07	1.69	0	**0**	**0**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**	**1.71**
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	SSP	0	**1.71**	1.66	1.66	**3.37**	**0**	**1.71**	**1.71**	**1.71**	**1.71**	**1.69**	**1.22**	**0.89**	**2.5**	**1.71**	**2.45**

IC602	**PINS**	**1**	**2**	**3**
KA7808		14	0	8

RE901	**PINS**	**1**	**2**	**3**
RECEIVEER		4.4	0	4.4

Q607	**PINS**	**E**	**B**	**C**
8050		5.8	4.3	12.9

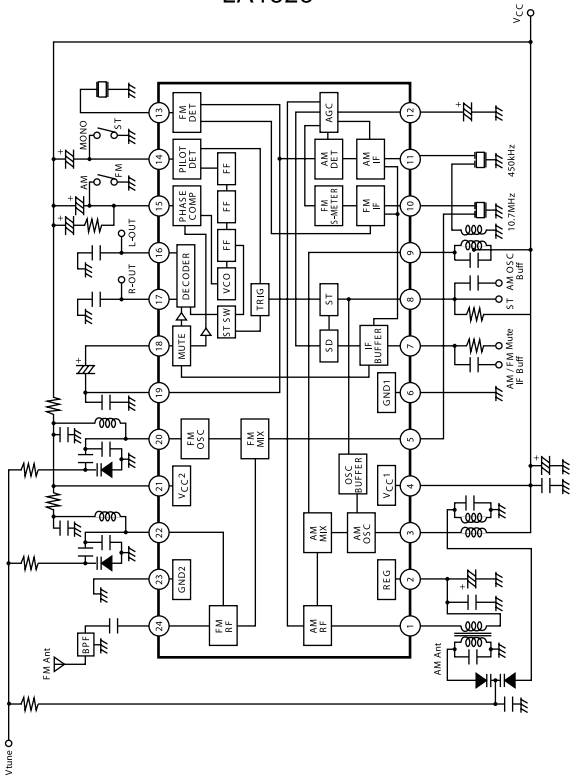
Q304	**PINS**	**E**	**B**	**C**
9014C		10.3	11	16.8

Q620	**PINS**	**E**	**B**	**C**
8050		6.2	6.8	10

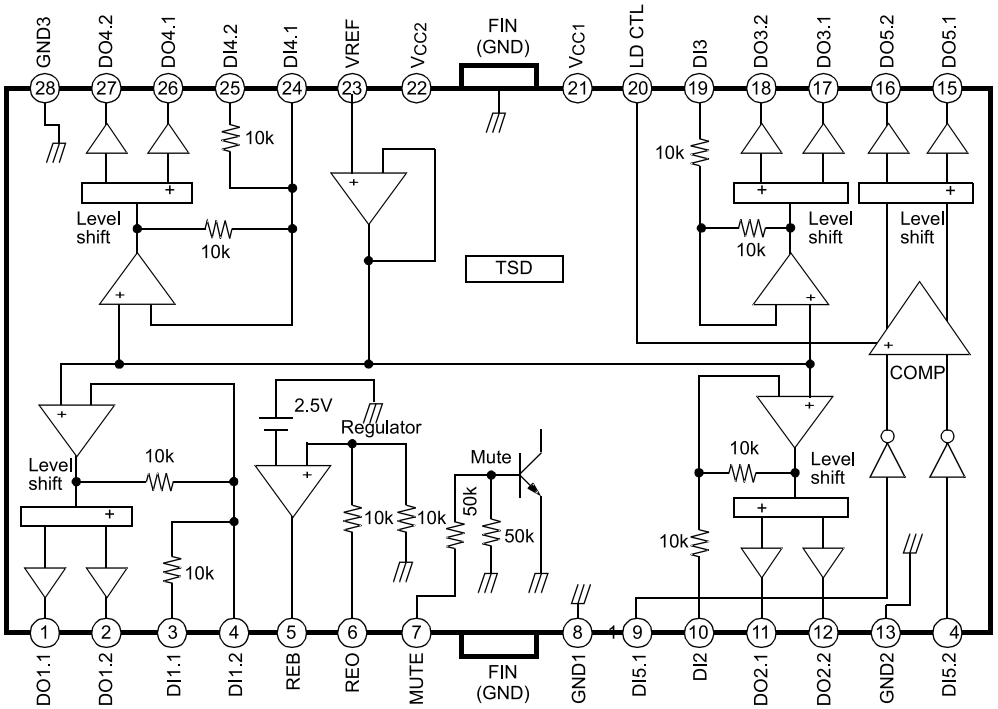
Q303	**PINS**	**E**	**B**	**C**
8050C		4.5	5.2	7.6

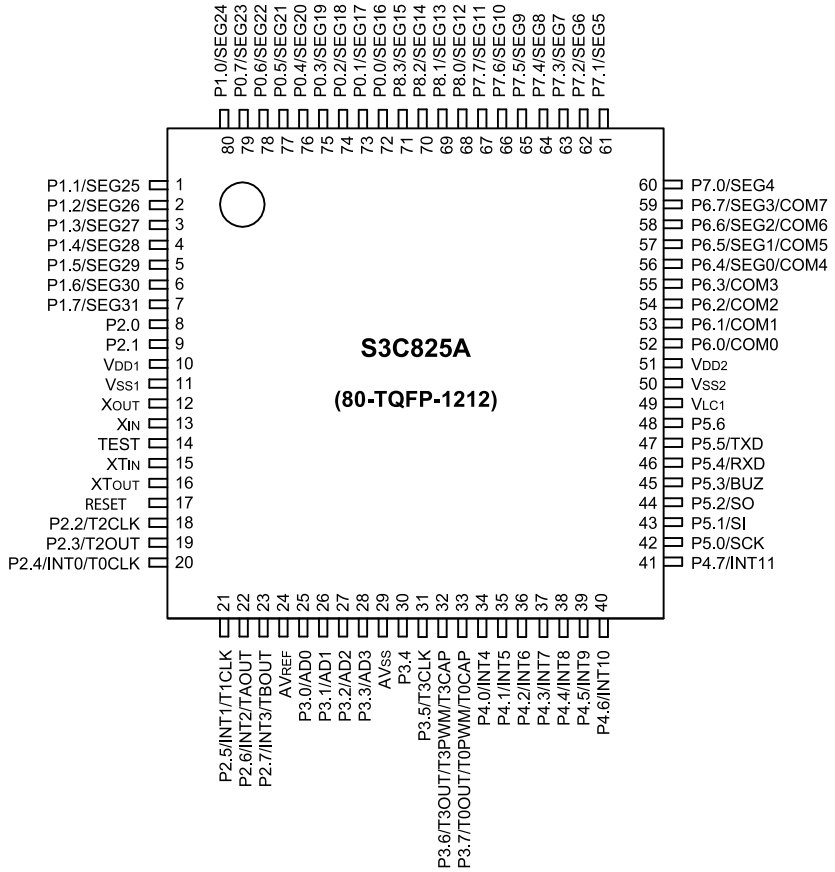
REMARK : ALL THE DATA IN THE TABLE IS FOR.REFERENCE ONLY
FOR FM.ST BAND , FM STEREO INDICATOR MUST BE ON.

LA1823

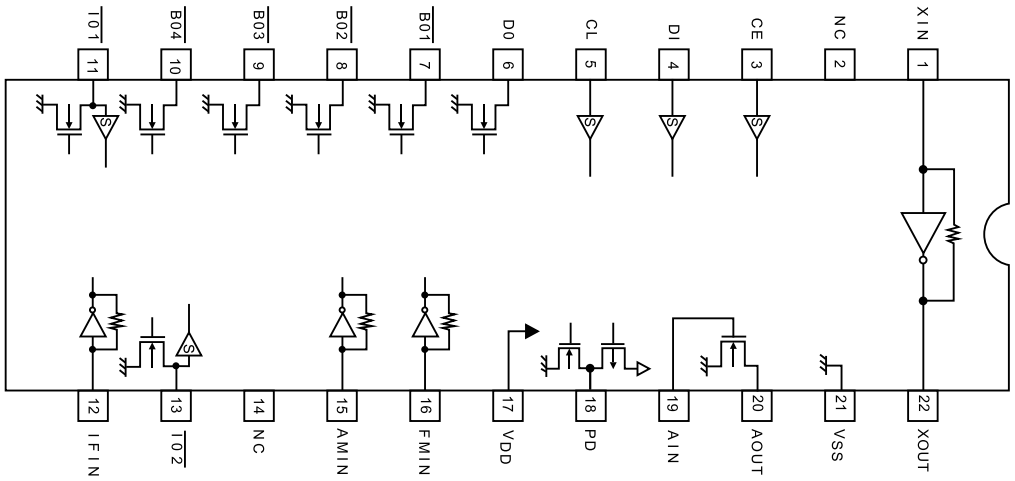


KA9259D(KA9259ED)




P1.0/SEG24
P0.7/SEG23
P0.6/SEG22
P0.5/SEG21
P0.4/SEG20
P0.3/SEG19
P0.2/SEG18
P0.1/SEG17
P0.0/SEG16
P8.3/SEG15
P8.2/SEG14
P8.1/SEG13
P8.0/SEG12
P7.7/SEG11
P7.6/SEG10
P7.5/SEG9
P7.4/SEG8
P7.3/SEG7
P7.2/SEG6
P7.1/SEG5
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
P1.1/SEG25 1
P1.2/SEG26 2
P1.3/SEG27 3
P1.4/SEG28 4
P1.5/SEG29 5
P1.6/SEG30 6
P1.7/SEG31 7
P2.0 8
P2.1 9
VDD1 10
VSS1 11
XOUT 12
XIN 13
TEST 14
XTIN 15
XTOUT 16
RESET 17
P2.2/T2CLK 18
P2.3/T2OUT 19
P2.4/INT0/T0CLK 20
S3C825A
(80-TQFP-1212)
60 P7.0/SEG4
59 P6.7/SEG3/COM7
58 P6.6/SEG2/COM6
57 P6.5/SEG1/COM5
56 P6.4/SEG0/COM4
55 P6.3/COM3
54 P6.2/COM2
53 P6.1/COM1
52 P6.0/COM0
51 VDD2
50 VSS2
49 VLC1
48 P5.6
47 P5.5/TXD
46 P5.4/RXD
45 P5.3/BUZ
44 P5.2/SO
43 P5.1/SI
42 P5.0/SCK
41 P4.7/INT11
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
P2.5/INT1/T1CLK
P2.6/INT2/TAOUT
P2.7/INT3/TBOUT
AVREF
P3.0/AD0
P3.1/AD1
P3.2/AD2
P3.3/AD3
AVSS
P3.4
P3.5/T3CLK
P3.6/T3OUT/T3PWM/T3CAP
P3.7/T0OUT/T0PWM/T0CAP
P4.0/INT4
P4.1/INT5
P4.2/INT6
P4.3/INT7
P4.4/INT8
P4.5/INT9
P4.6/INT10

LC72131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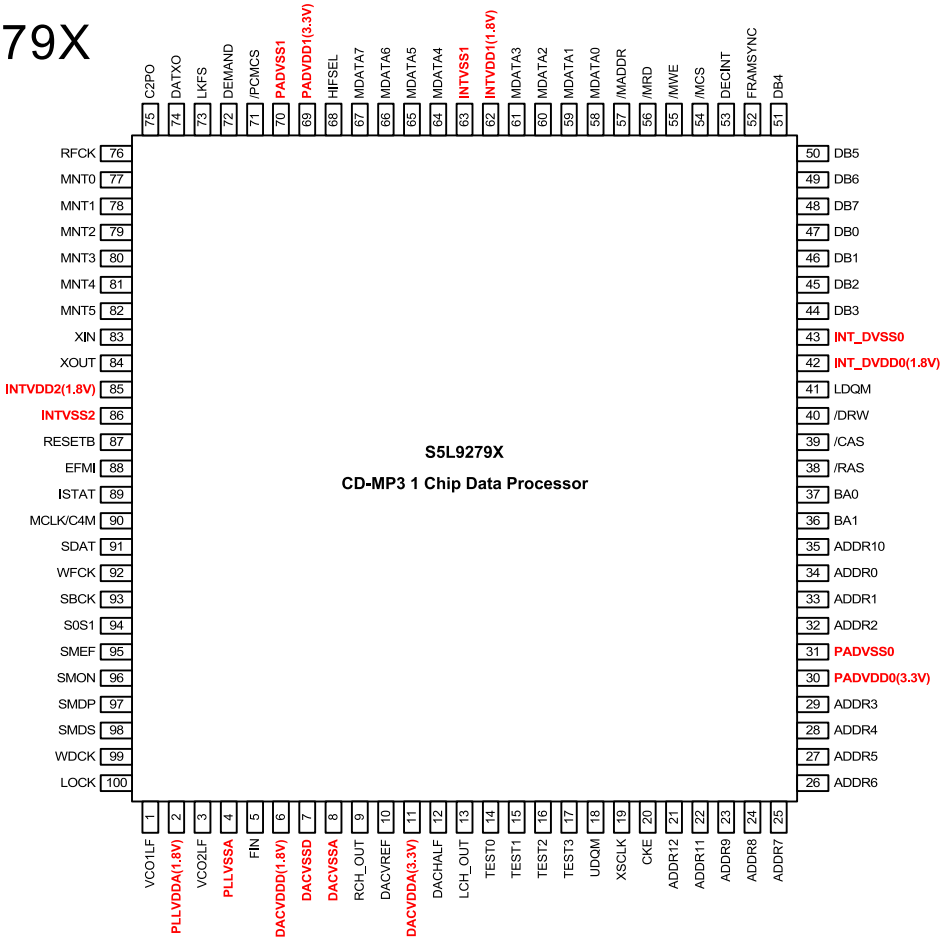
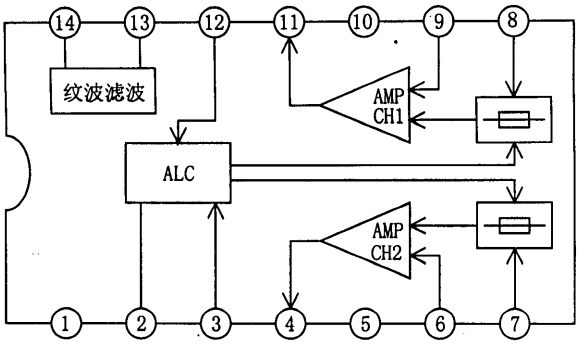
BO4 10
BO3 9
BO2 8
BO1 7
DO 6
CL 5
DI 4
CE 3
NC 2
XIN 1
12 IFIN
13 TOZ
14 NC
15 AMIN
16 FMIN
17 VDD
18 PD
19 AIN
20 AOUT
21 VSS
22 XOUT

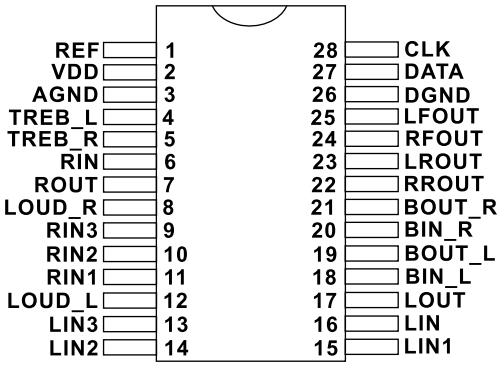
S5L9279X



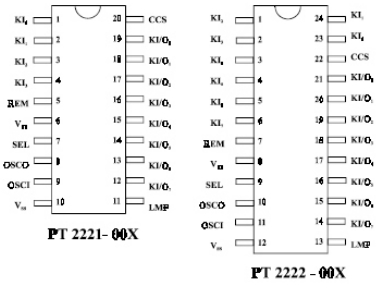
AN7312



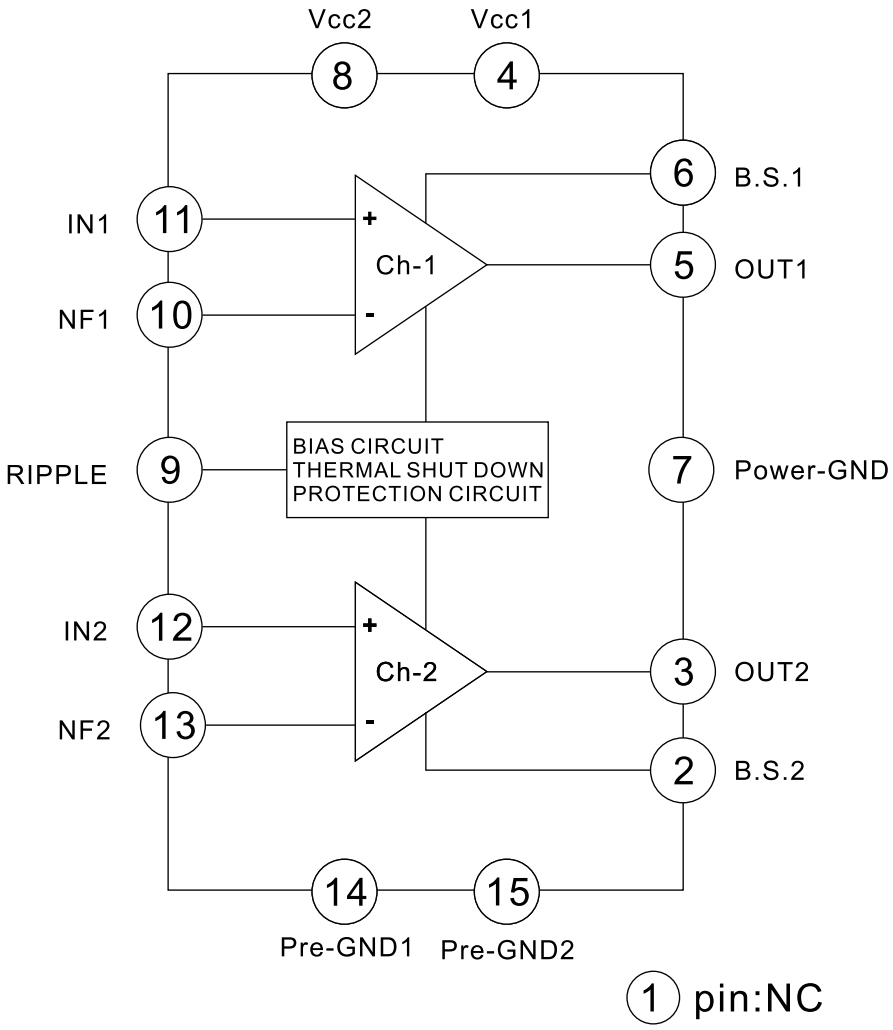
PT2313L



PIN CONFIGURATION



TA8229K



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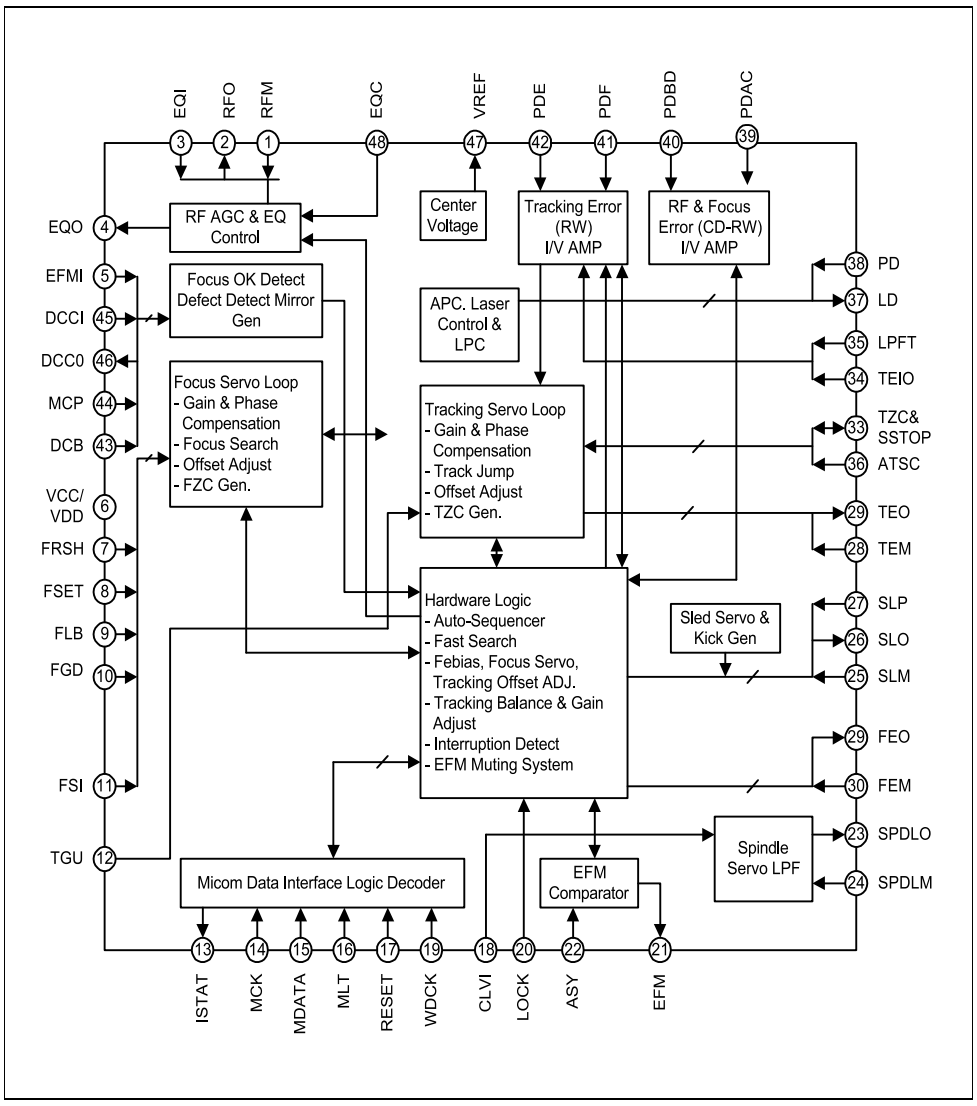

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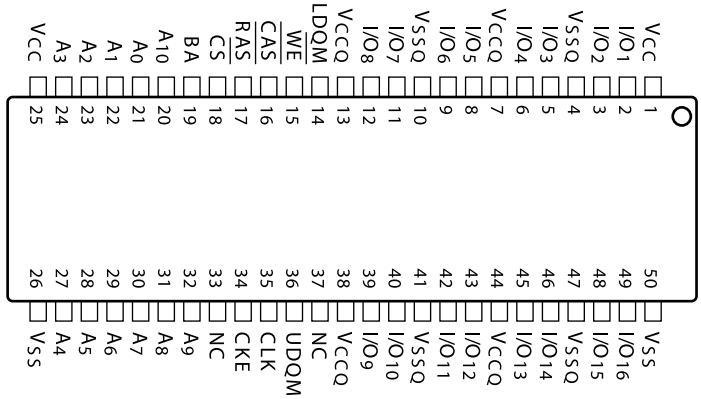
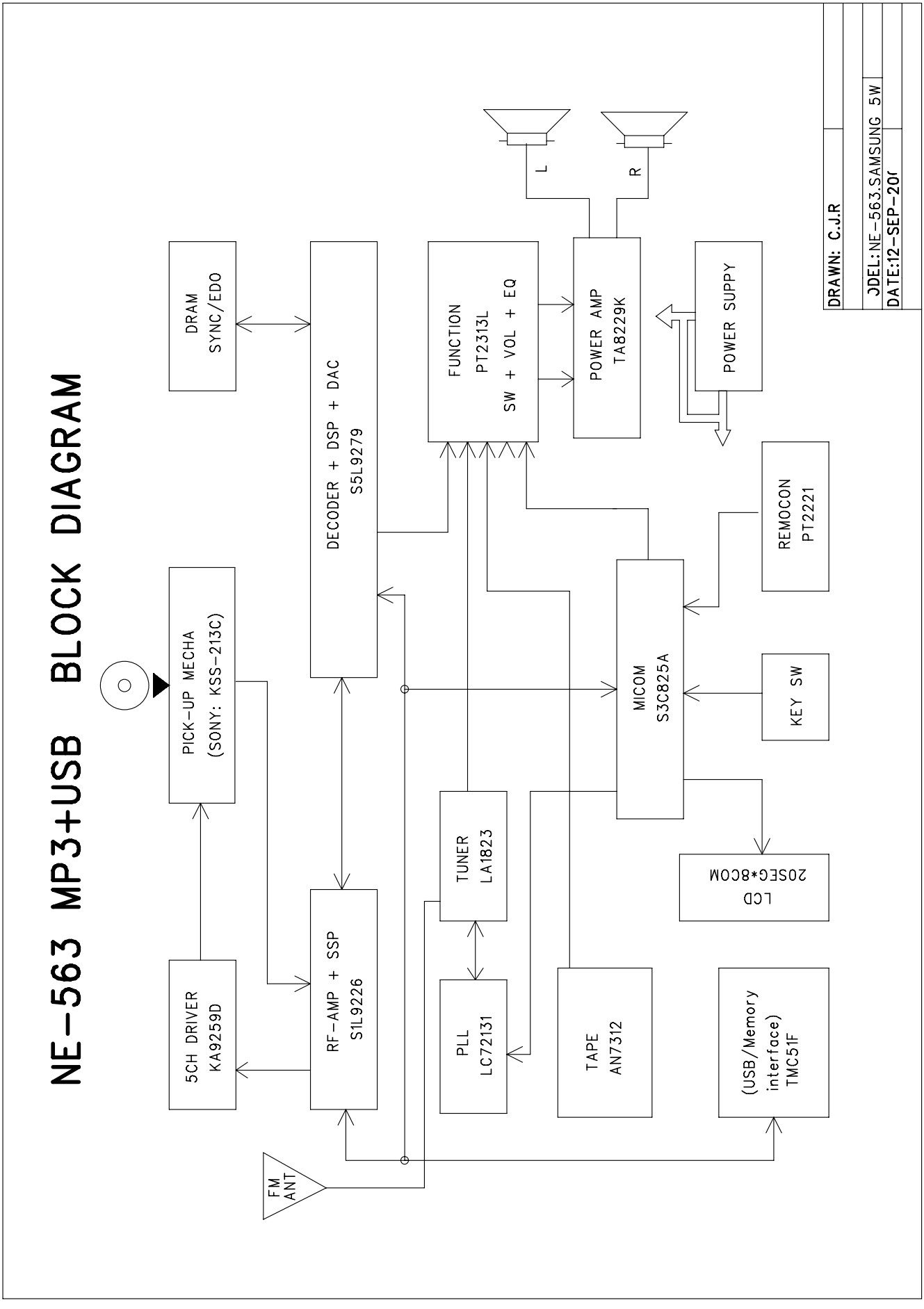
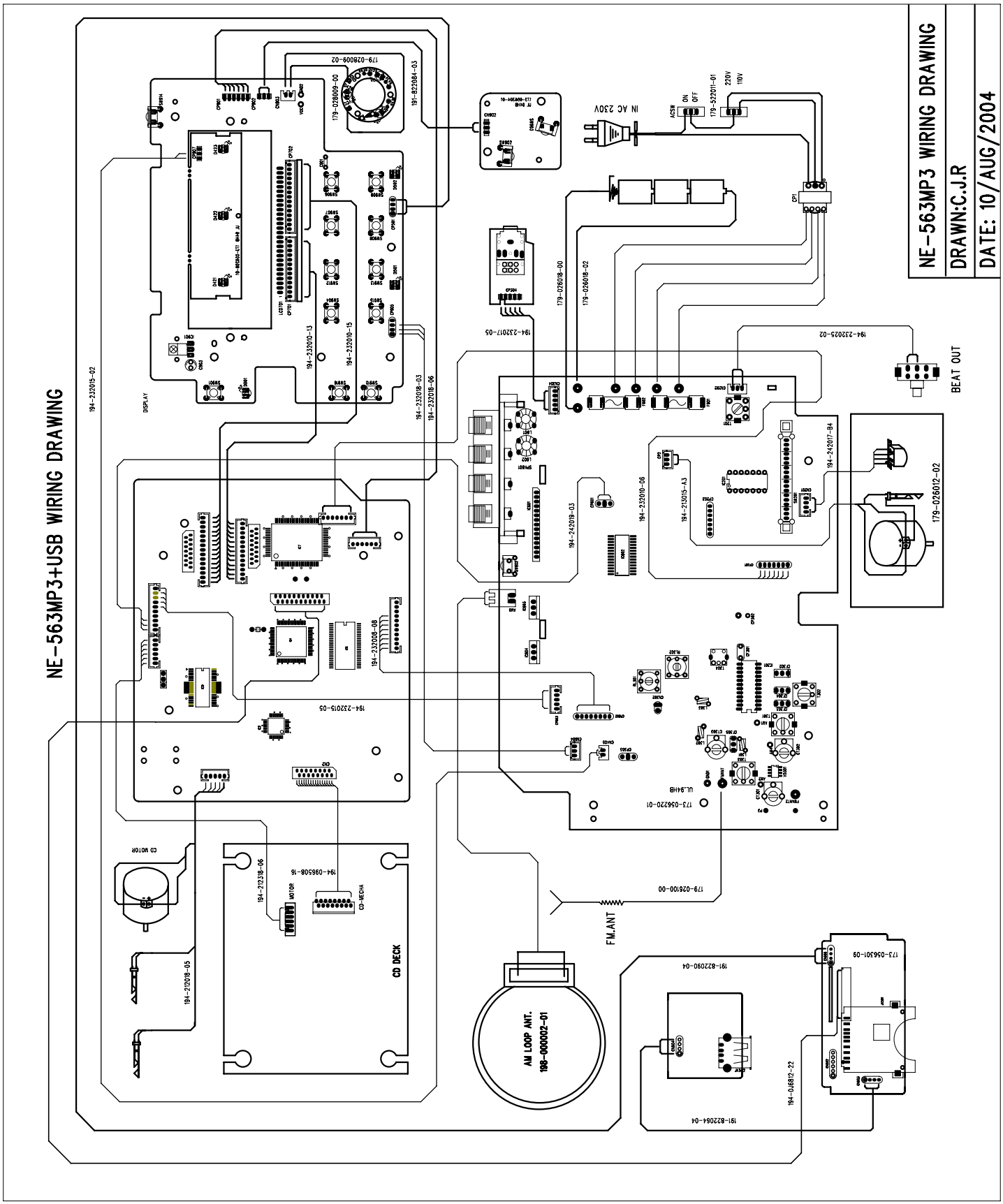
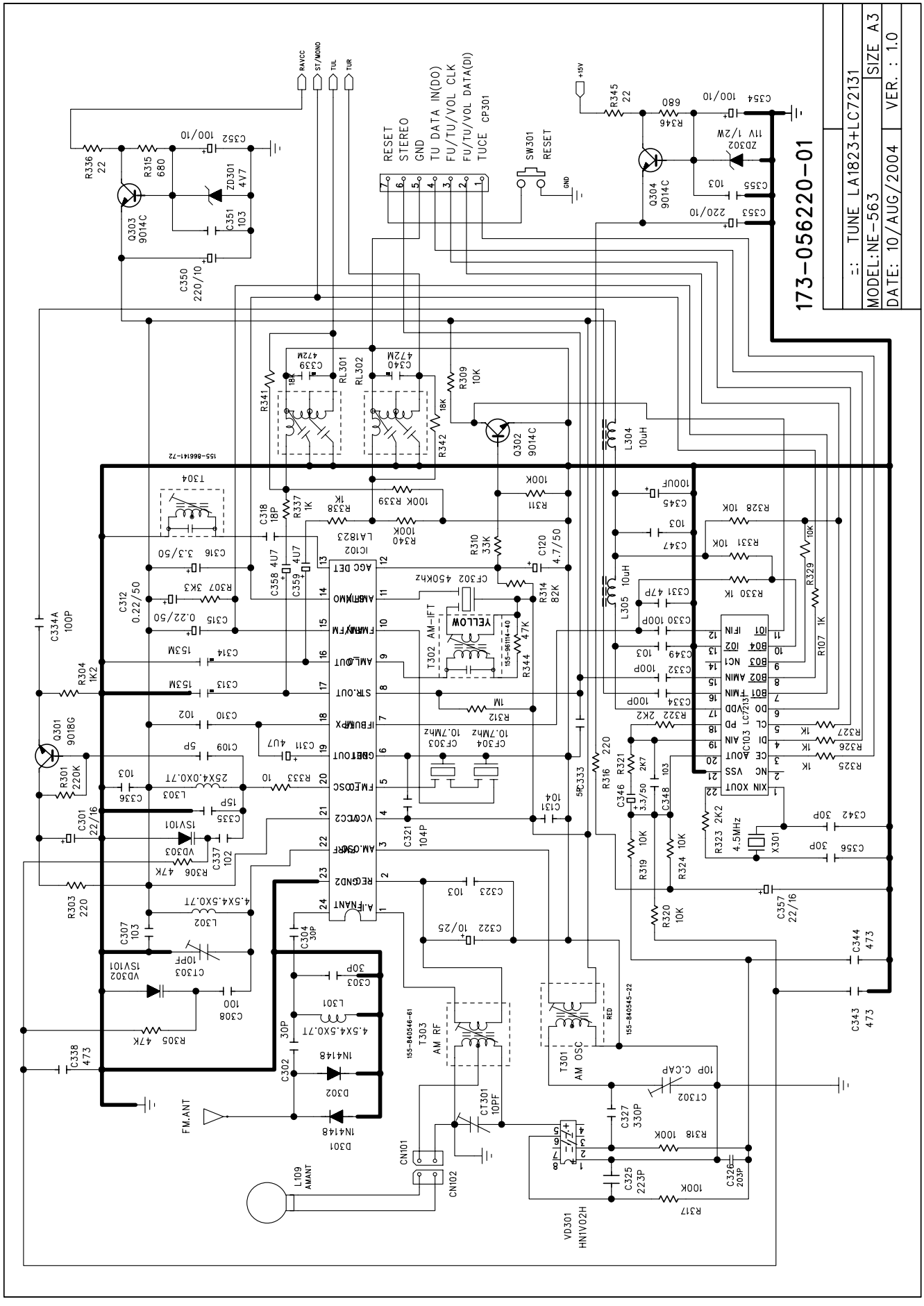
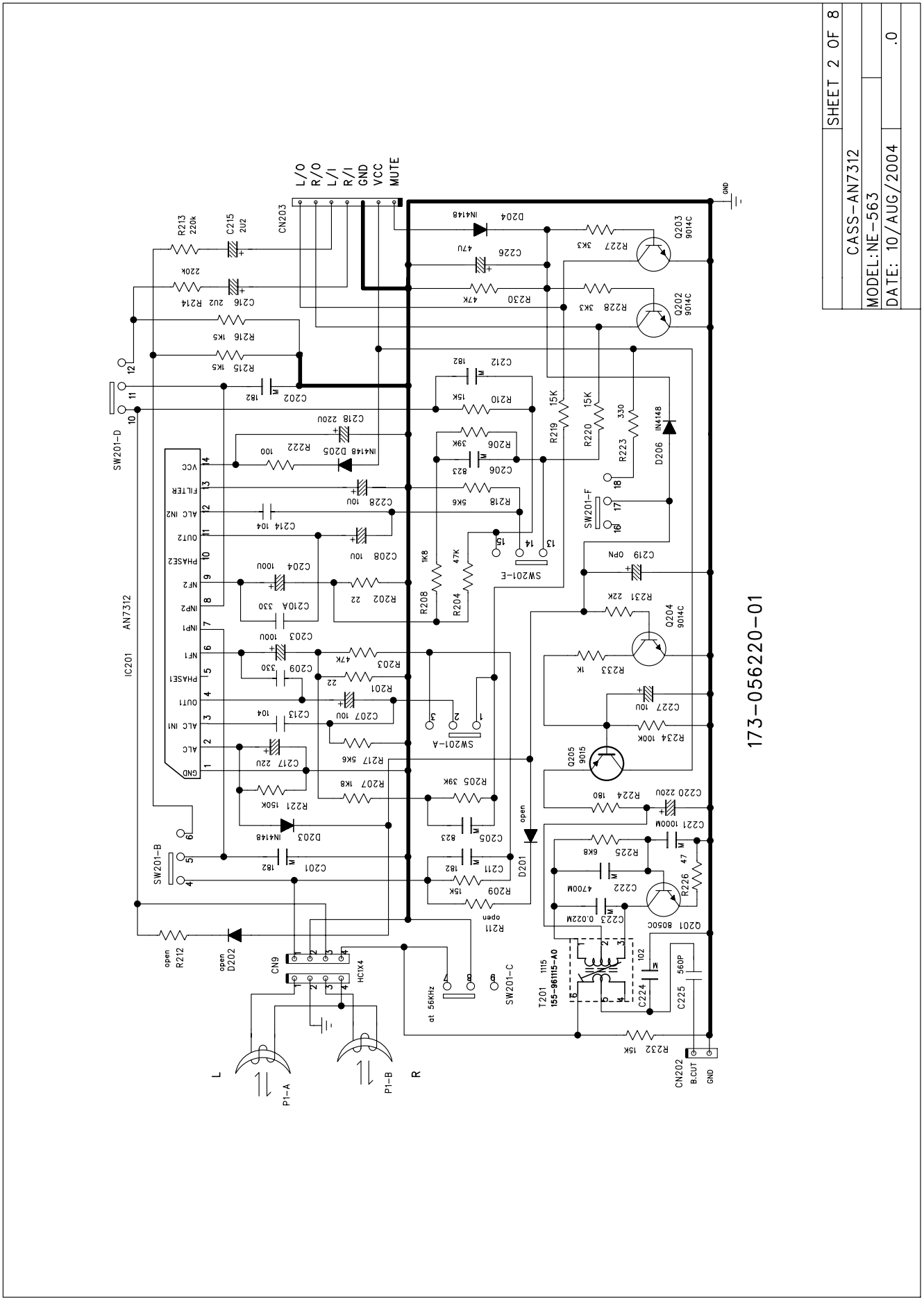
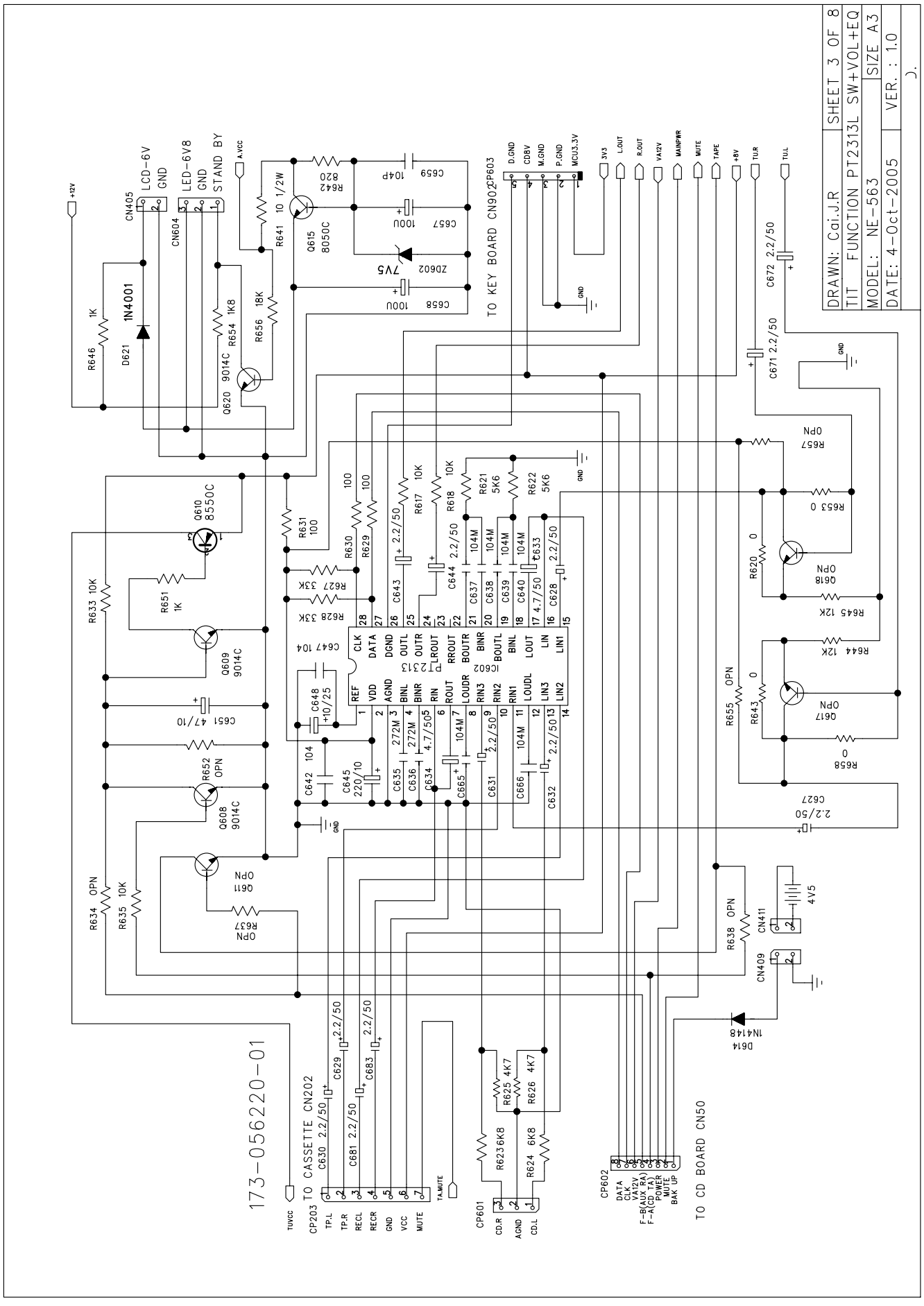


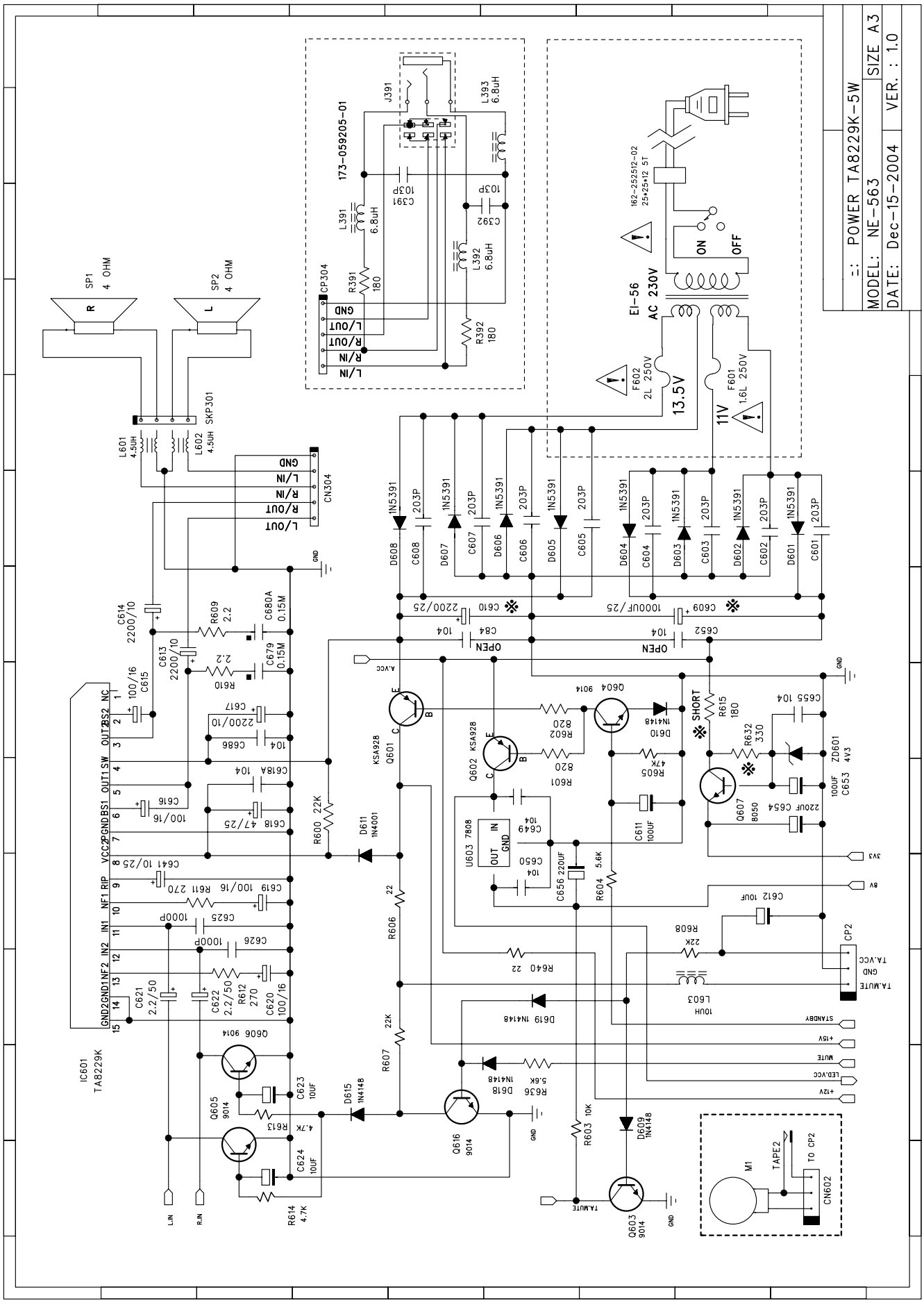

NE-563 MP3+USB BLOCK DIAGRAM
DRAWN: C.J.R
JDEL:NE-563.SAMSUNG 5W
DATE:12-SEP-20
L
R
DRAM
SYNC/EDO
DECODER + DSP + DAC
S5L9279
FUNCTION
PT2313L
SW + VOL + EQ
POWER AMP
TA8229K
POWER SUPPY
REMOCON
PT2221
PICK-UP MECHA
(SONY: KSS-213C)
MICOM
S3C825A
KEY SW
TUNER
LA1823
LCD
20SEG*8COM
5CH DRIVER
KA9259D
RF-AMP + SSP
S1L9226
PLL
LC72131
TAPE
AN7312
(USB/Memory
interface)
TMC51F
FM
ANT

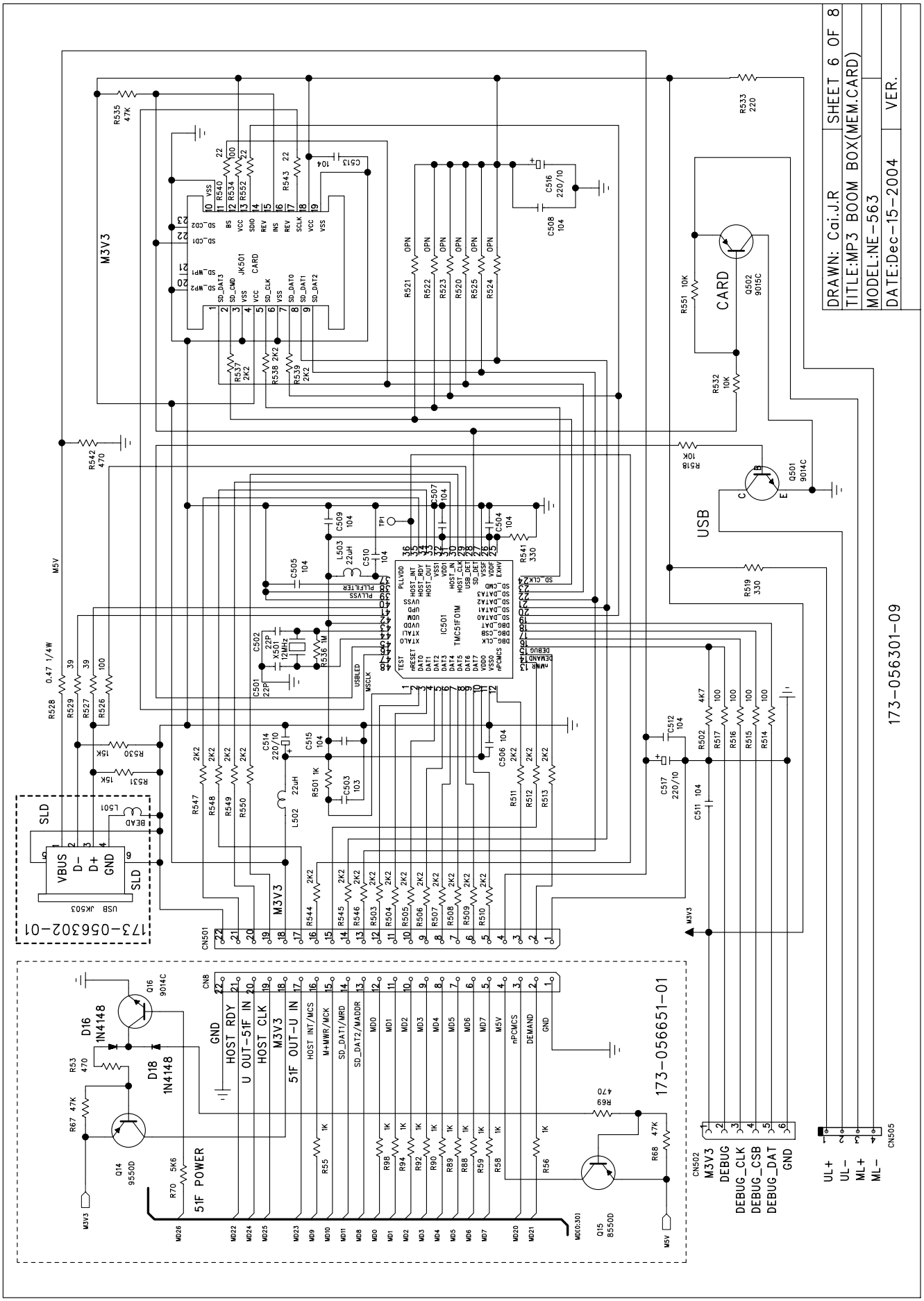

NE-563MP3+USB WIRING DRAWING
NE-563MP3 WIRING DRAWING
DRAWN:C.J.R
DATE: 10/AUG/2004
IN AC 230V
BEAT OUT
FM.ANT
AM LOOP ANT.
CD DECK
CD MOTOR
DISPLAY

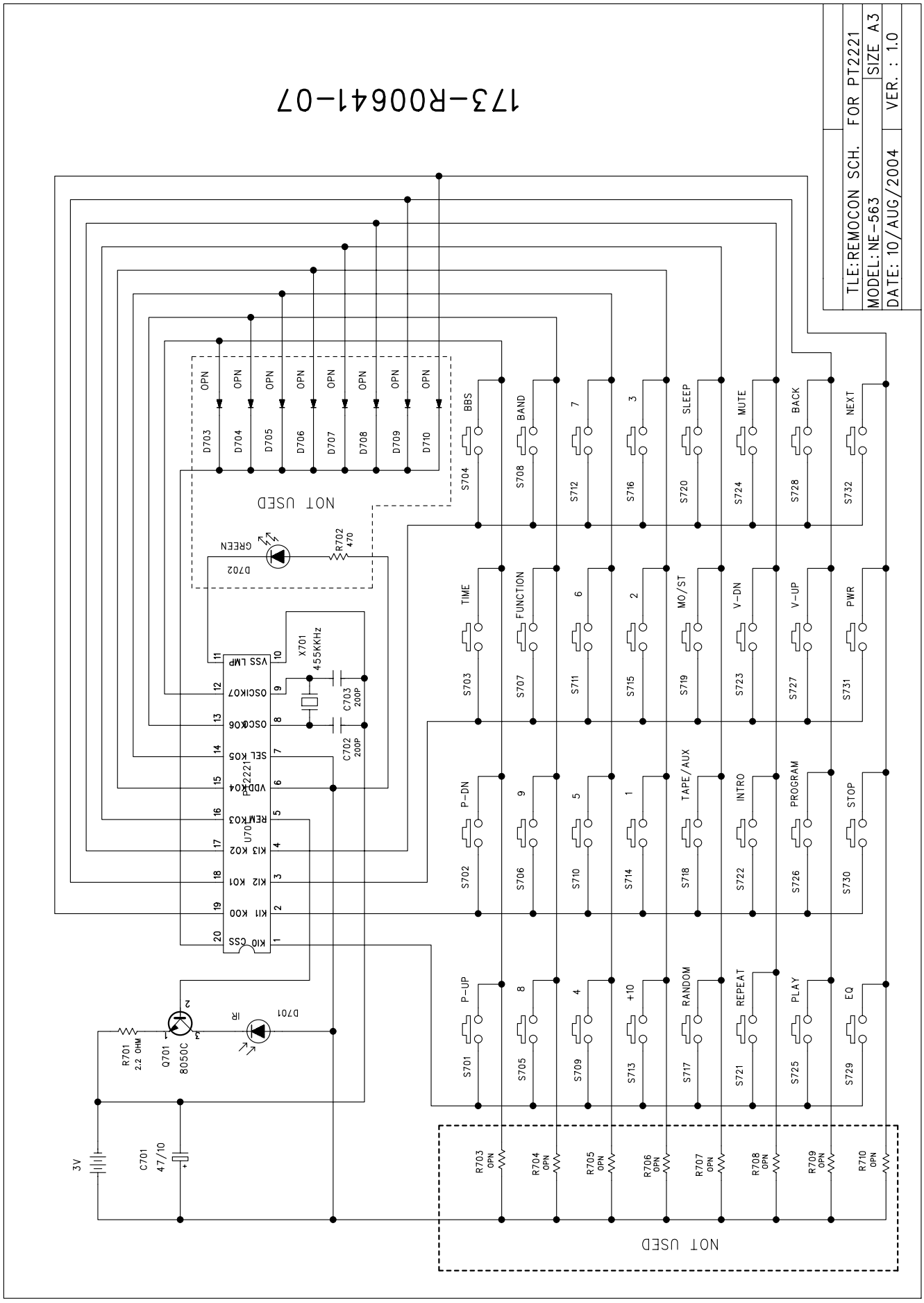

173-056220-01
=: TUNE LA1823+LC72131
MODEL:NE-563
DATE: 10/AUG/2004
SIZE A3
VER. : 1.0
RAVCC
ST/MONO
TUL
TUR
RESET
STEREO
GND
TU DATA IN(DO)
FU/TU/VOL CLK
FU/TU/VOL DATA(DI)
TUCE CP301
SW301
RESET
+15V
Q303 9014C
Q304 9014C
Q302 9014C
Q301 9018G
IC102 LA1823
IC103 LC72131
T301 AM OSC
T302 AM-IFT
T303 AM RF
T304
X301 4.5MHz
VD301 HN1V02H
VD302 1SV101
VD303 1SV101
D301 1N4148
D302 1N4148
FM.ANT
L109 AMANT
CN101
CN102
CT301 10PF
CT302 10P C.CAP
CT303 10PF
CF301 10.7Mhz
CF302 450Khz
CF303 10.7Mhz
CF304 10.7Mhz
YELLOW
RED
155-840545-22
155-840546-61
155-86114-72

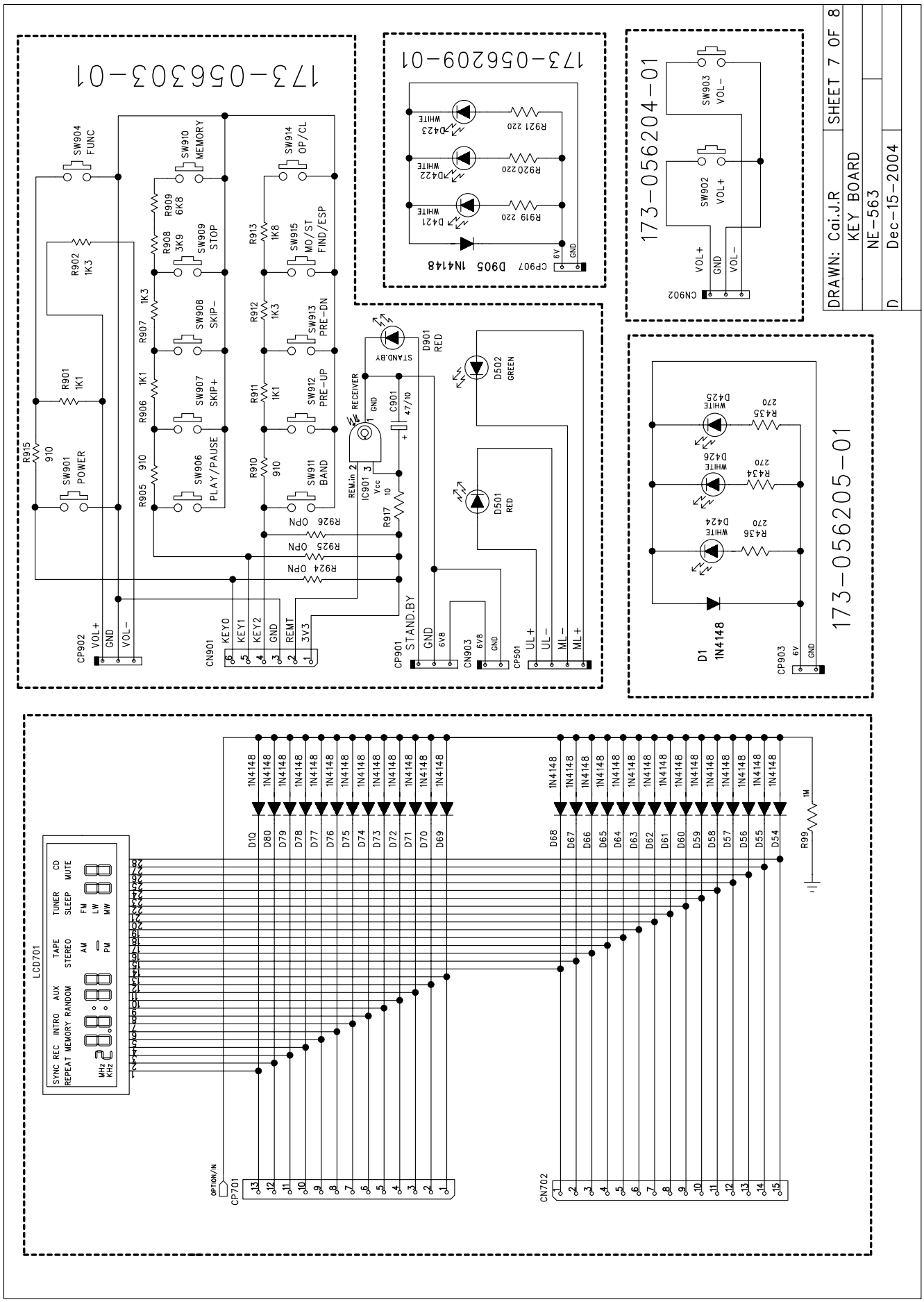

SHEET 2 OF 8
CASS-AN7312
MODEL:NE-563
DATE: 10/AUG/2004
.0
173-056220-01
IC201 AN7312
SW201-D
SW201-B
SW201-A
SW201-C
SW201-E
SW201-F
CN203
CN9
CN202
L/O
R/O
L/I
R/I
GND
VCC
MUTE
T201 1115 155-961115-A0
Q201 8050C
Q202 9014C
Q203 9014C
Q204 9014C
Q205 9015
D201
D202
D203
D204
D206
IN4148
HCIX4
at 56KHz
B.CUT
P1-A
P1-B
L
R

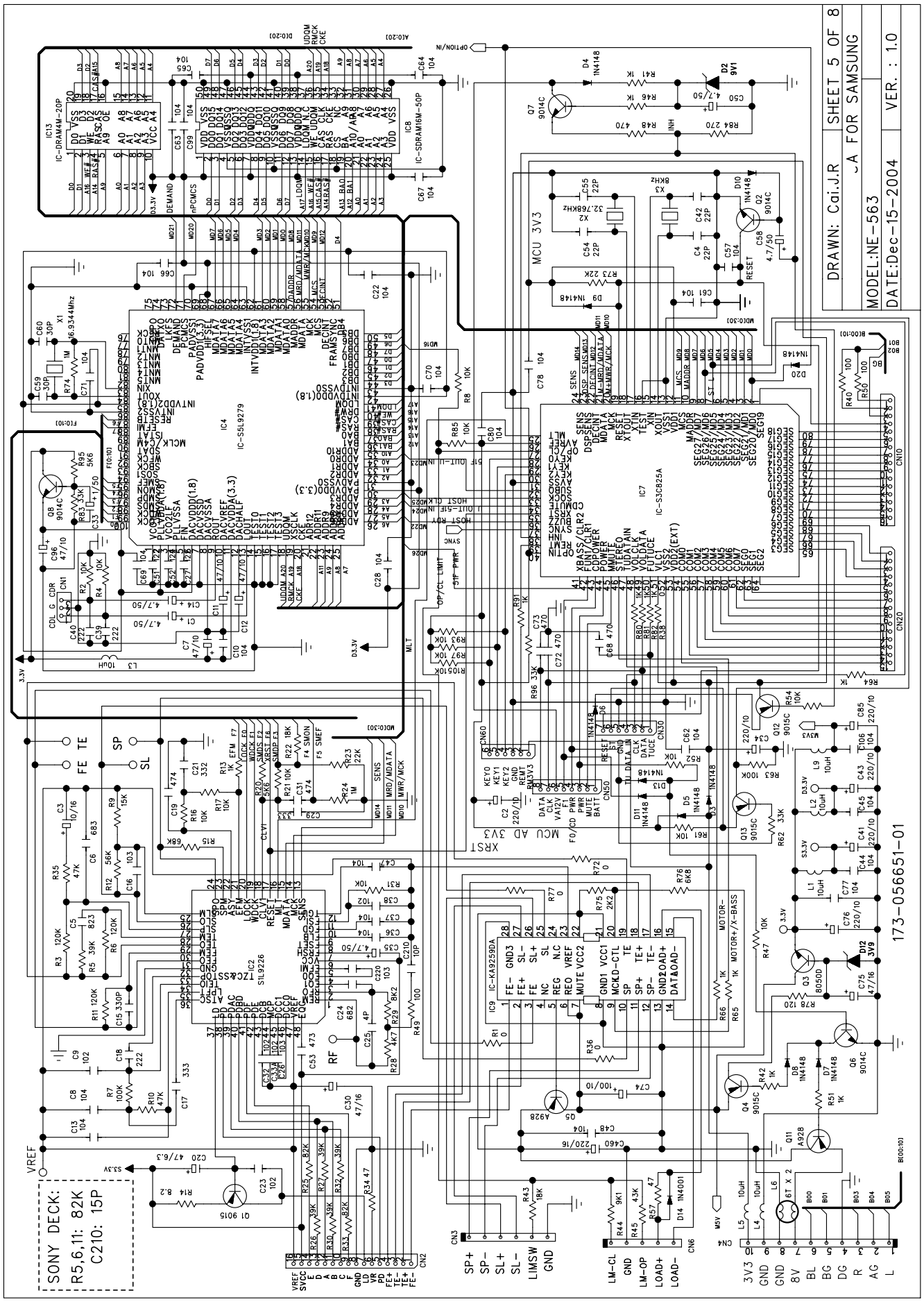

DRAWN: Cai.J.R
SHEET 3 OF 8
TIT FUNCTION PT2313L SW+VOL+EQ
MODEL: NE-563
SIZE A3
DATE: 4-Oct-2005
VER. : 1.0
TO KEY BOARD CN902 CP603
TO CASSETTE CN202
TO CD BOARD CN50
173-056220-01
PT2313

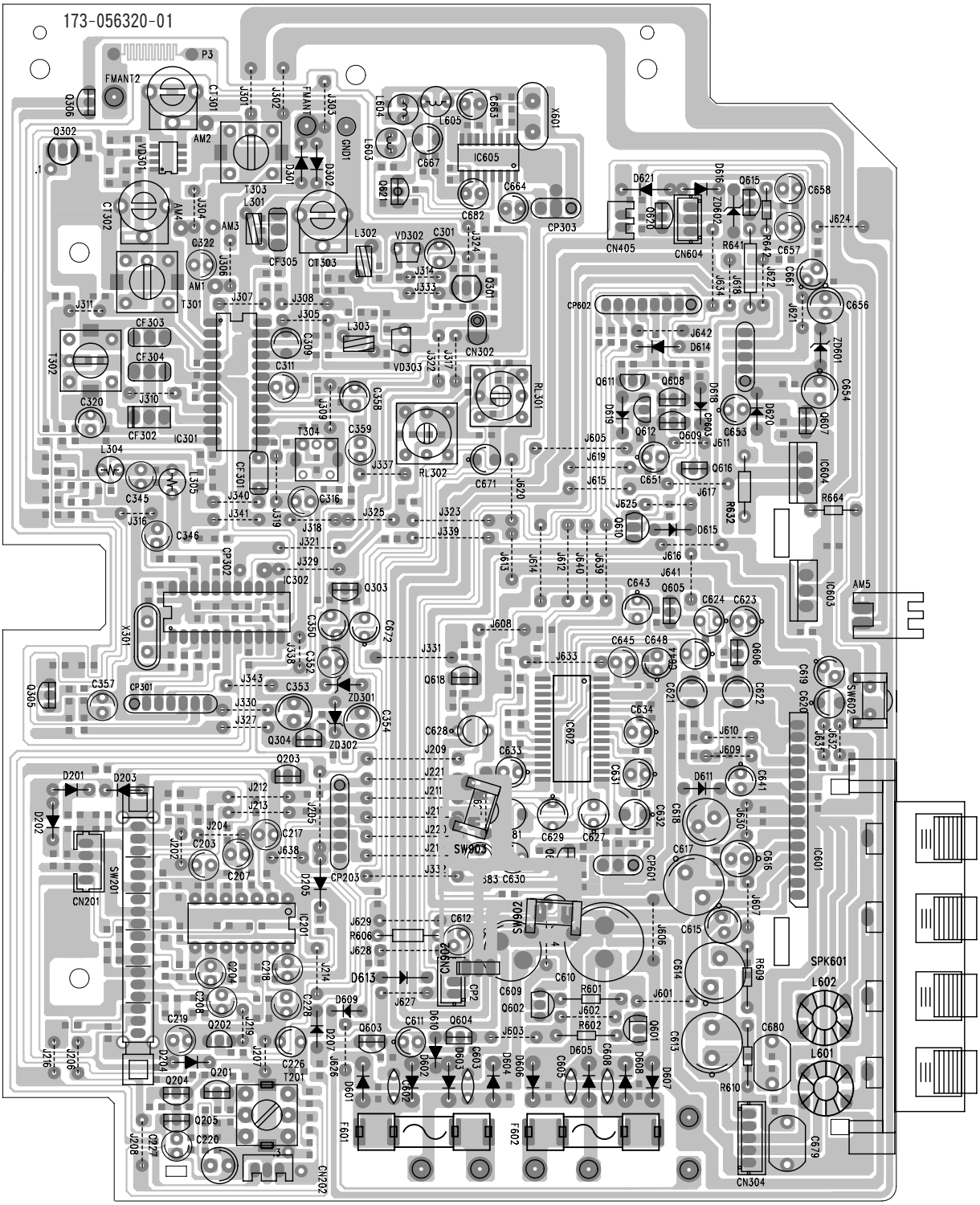

:: POWER TA8229K-5W
MODEL: NE-563
SIZE A3
DATE: Dec-15-2004
VER. : 1.0
EI-56
AC 230V
ON
OFF
13.5V
11V
F602 2L 250V
F601 1.6L 250V
173-059205-01
J391
L393 6.8uH
L391 6.8uH
L392 6.8uH
R391 180
R392 180
C391 103P
C392 103P
CP304
L/IN
R/IN
R/OUT
L/OUT
GND
SP1 4 OHM
SP2 4 OHM
R
L
L601 4.5UH
L602 4.5UH
SKP301
CN304
IC601
TA8229K
Q601 KSA928
Q602 KSA928
Q603 9014
Q604 9014
Q605 9014
Q606 9014
Q607 8050
Q616 9014
D608 1N5391
D607 1N5391
D606 1N5391
D605 1N5391
D604 1N5391
D603 1N5391
D602 1N5391
D601 1N5391
D609 1N4148
D610 1N4148
D611 IN4001
D615 1N4148
D618 1N4148
D619 1N4148
U603 7808
ZD601 4V3
L603 10UH
CP2
TA.MUTE
GND
TA.VCC
STANDBY
+15V
MUTE
LED.VCC
+12V
5V3
8V
M1
TAPE2
TO CP2
CN602
L.IN
R.IN
SHORT
OPEN

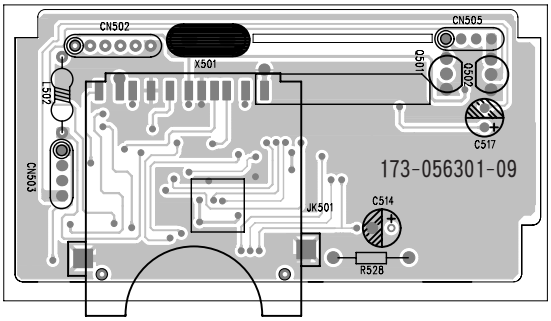

DRAWN: Cai.J.R
SHEET 6 OF 8
TITLE:MP3 BOOM BOX(MEM.CARD)
MODEL:NE-563
DATE:Dec-15-2004
VER.
173-056301-09
173-056302-01
173-056651-01
M3V3
M5V
USB
CARD
IC501
TMC51F01M
CN501
CN502
CN505
CN8
JK501
JK503
51F POWER
DEBUG_CLK
DEBUG_CSB
DEBUG_DAT
GND
HOST RDY
U OUT-51F IN
HOST CLK
51F OUT-U IN
UL+
UL-
ML+
ML-

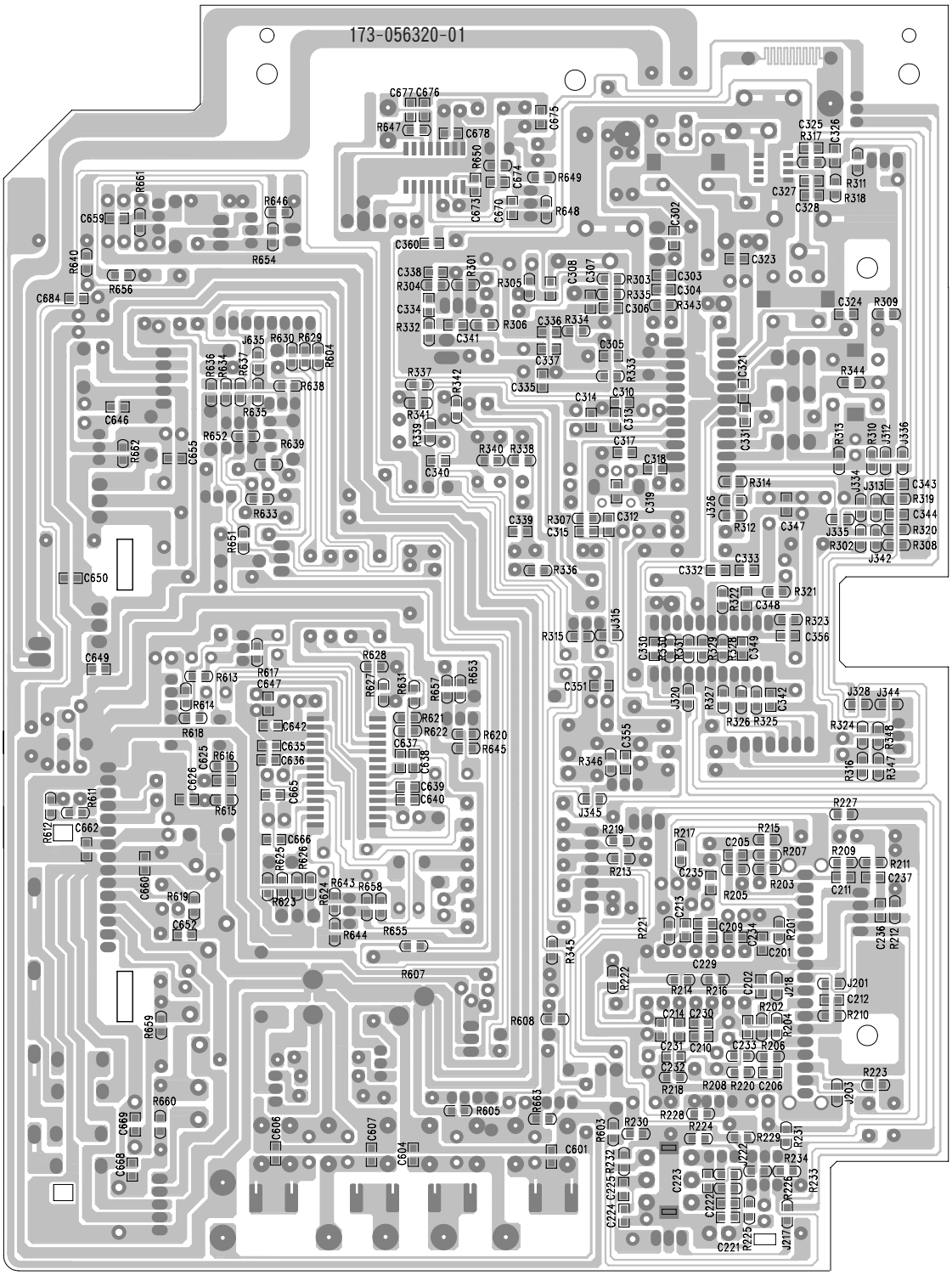

173-R00641-07
TLE:REMOCON SCH. FOR PT2221
MODEL: NE-563
SIZE A3
DATE: 10/AUG/2004
VER. : 1.0
NOT USED
D703 OPN
D704 OPN
D705 OPN
D706 OPN
D707 OPN
D708 OPN
D709 OPN
D710 OPN
D702 GREEN
R702 470
X701 455KKHz
C703 200P
C702 200P
U701 PT2221
VSS LMP
OSCIK07
OSCOK06
SEL K05
VDD K04
REM K03
K13 K02
K12 K01
K11 K00
K10 CSS
R701 2.2 OHM
Q701 8050C
D701 IR
C701 47/10
3V
S704 BBS
S708 BAND
S712 7
S716 3
S720 SLEEP
S724 MUTE
S728 BACK
S732 NEXT
S703 TIME
S707 FUNCTION
S711 6
S715 2
S719 MO/ST
S723 V-DN
S727 V-UP
S731 PWR
S702 P-DN
S706 9
S710 5
S714 1
S718 TAPE/AUX
S722 INTRO
S726 PROGRAM
S730 STOP
S701 P-UP
S705 8
S709 4
S713 +10
S717 RANDOM
S721 REPEAT
S725 PLAY
S729 EQ
R703 OPN
R704 OPN
R705 OPN
R706 OPN
R707 OPN
R708 OPN
R709 OPN
R710 OPN
NOT USED


173-056303-01
173-056209-01
173-056204-01
173-056205-01
KEY BOARD
NE-563
Dec-15-2004
SHEET 7 OF 8
DRAWN: Cai.J.R
LCD701
CP701
CN702
CN901
CP902
CP901
CN903
CP501
CN902
CP907
IC901
SW901 POWER
SW904 FUNC
SW906 PLAY/PAUSE
SW907 SKIP+
SW908 SKIP-
SW909 STOP
SW910 MEMORY
SW911 BAND
SW912 PRE-UP
SW913 PRE-DN
SW914 OP/CL
SW915 MO/ST FIND/ESP
SW902 VOL+
SW903 VOL-
D501 RED
D502 GREEN
D901 RED
STAND.BY
RECEIVER
D1 1N4148
D905 1N4148


DRAWN: Cai.J.R
SHEET 5 OF 8
A FOR SAMSUNG
MODEL:NE-563
DATE:Dec-15-2004
VER. : 1.0
MCU 3V3
MCU AD 3V3
XRST
SONY DECK:
R5,6,11: 82K
C210: 15P
173-056651-01


173-056320-01


173-056301-09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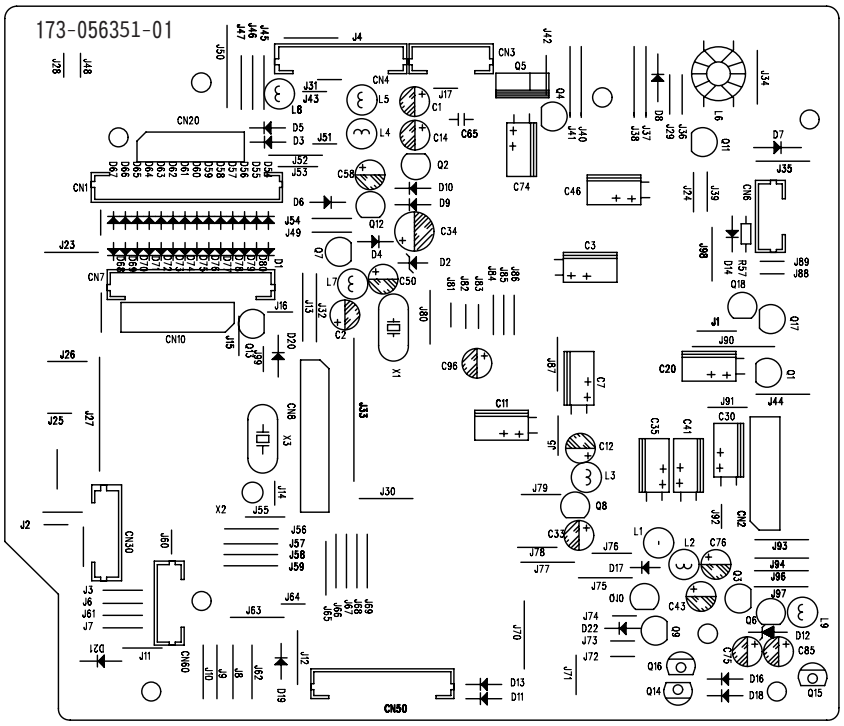
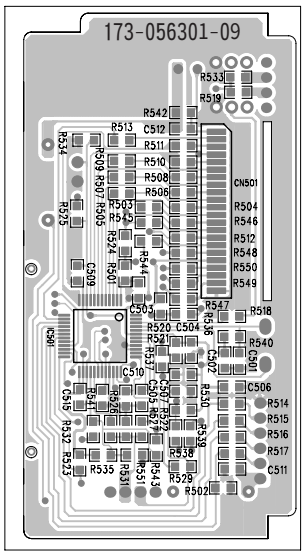
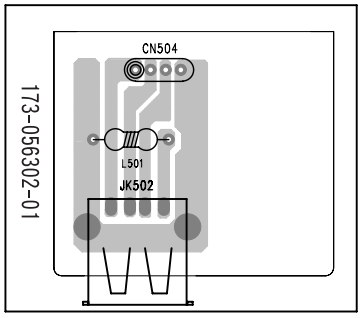
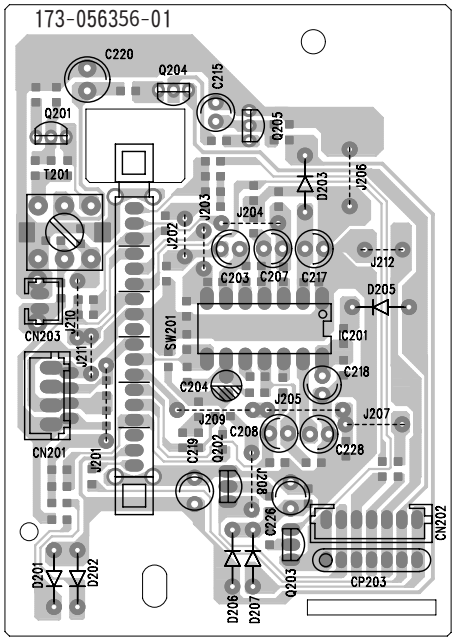
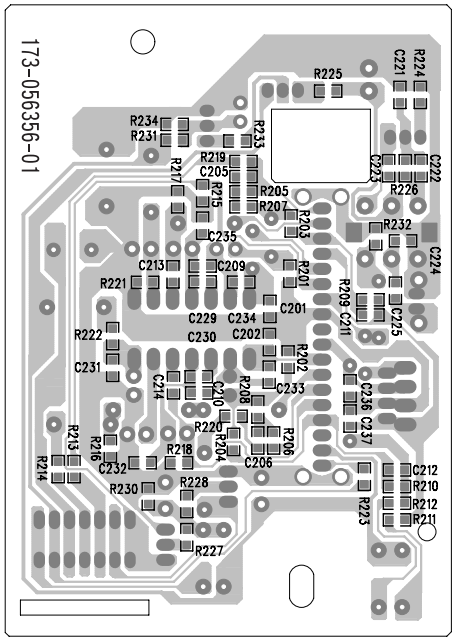
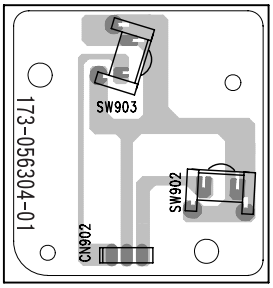

173-056351-01


173-056301-09

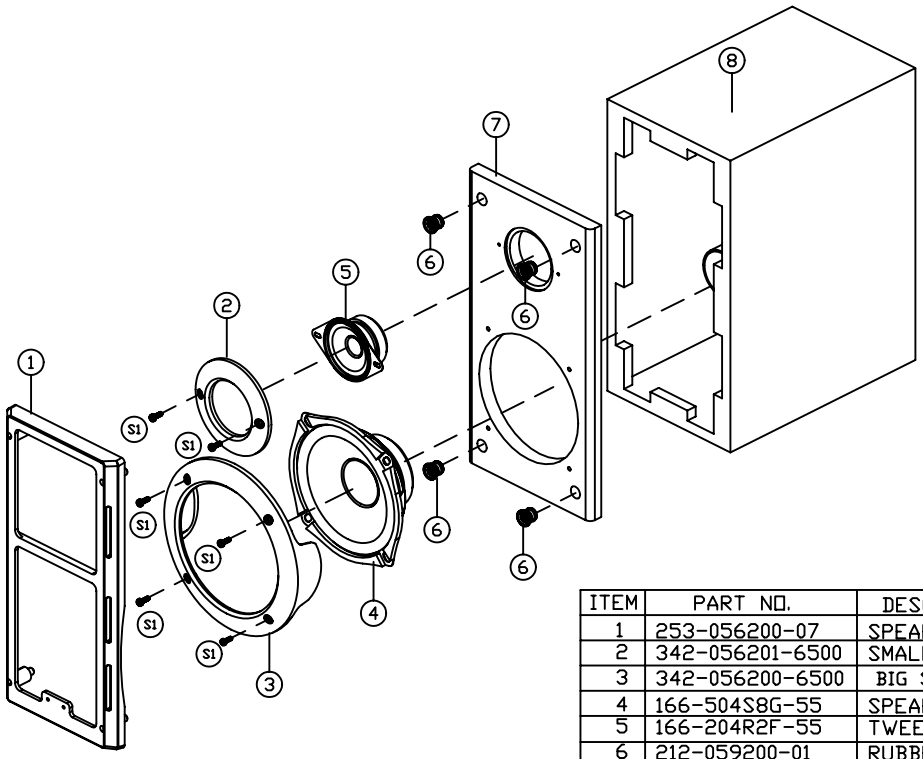

173-056302-01
CN504
L501
JK502


173-056356-01

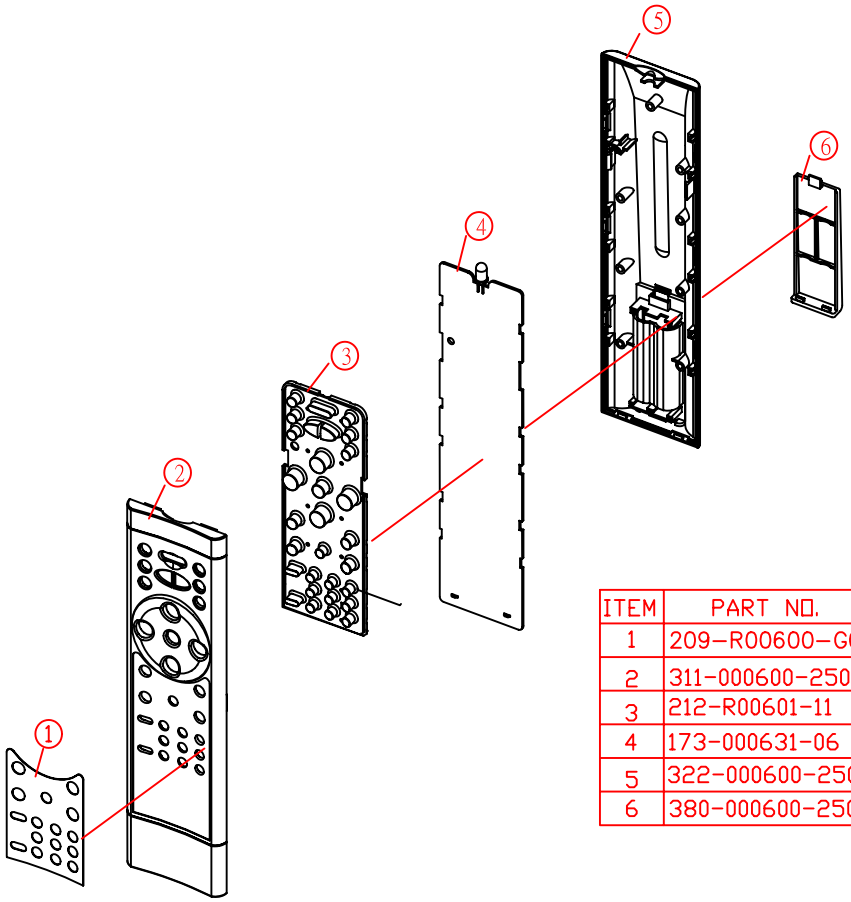

173-056356-01


173-056304-01
SW903
SW902
CN902

EXPLODED VIEW/PARTS LIST (CABINET)

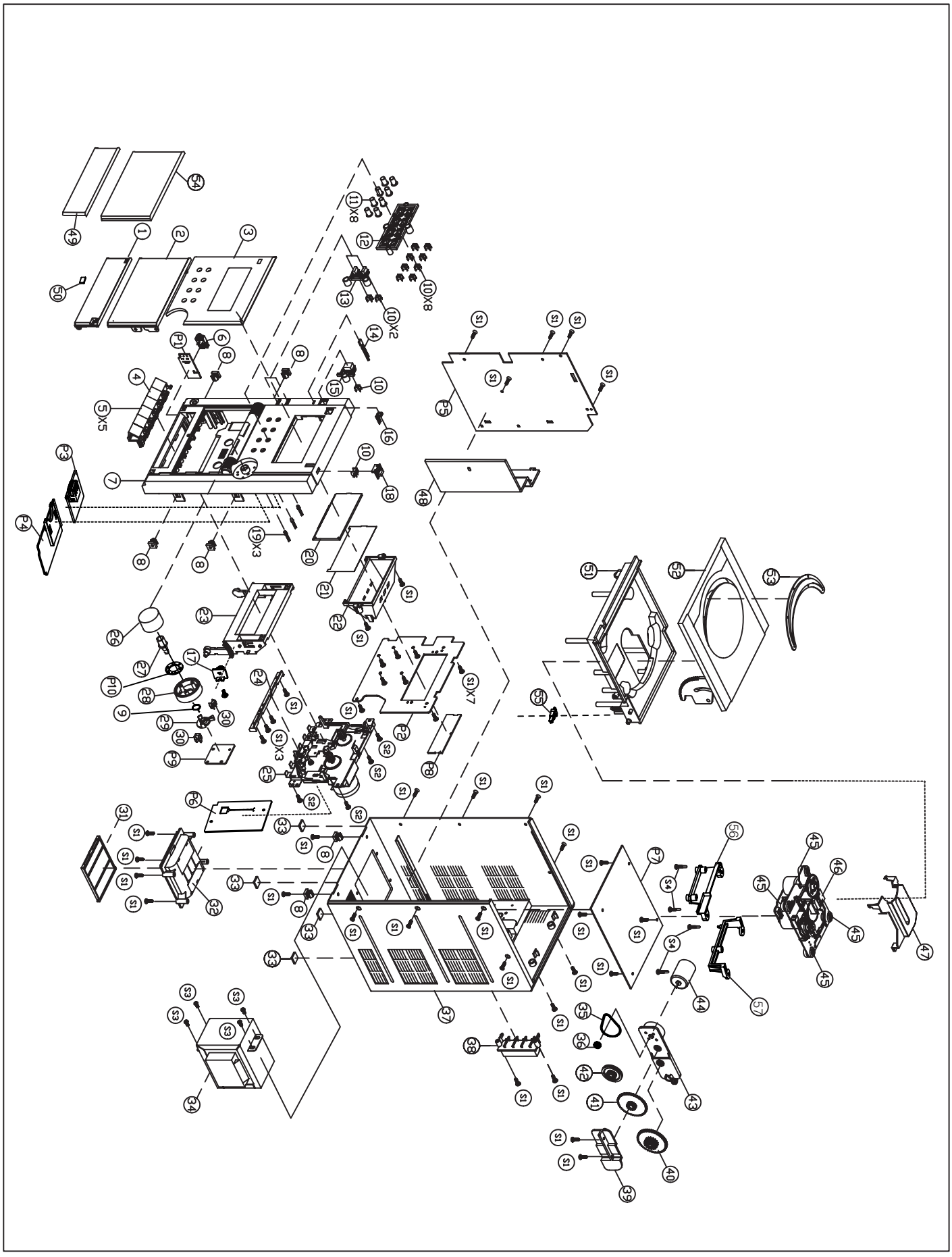


ITEM	PART NO.	DESCRIPTION
1	253-056200-07	SPEAKER MASK
2	342-056201-6500	SMALL SPEAKER RING
3	342-056200-6500	BIG SPEAKER RING
4	166-504S8G-55	SPEAKER
5	166-204R2F-55	TWEETER
6	212-059200-01	RUBBER SP MASK FIXED
7	253-056215-00	SPEAKER CABINET
8	253-056215-01	SPEAKER BOX
S1	203-301720-18	SCREW M3X18A



ITEM	PART NO.	DESCRIPTION
1	209-R00600-G0	PVC PLATE
2	311-000600-2500	FRONT CABINET
3	212-R00601-11	SILICON RUBBER
4	173-000631-06	PCB REMOTE BOARD
5	322-000600-2500	BACK CABINET
6	380-000600-2500	BATTERY DOOR

EXPLODED VIEW/PARTS LIST (CABINET)



EXPLODED VIEW/PARTS LIST (CABINET)

ITEM	PART NO.	DESCRIPTION	QTY
1	357-056220-6500	CASSETTE KNOB COVER	1
2	358-056210-6500	CASSETTE DOOR	1
3	333-056200-8890	FRONT LENS	1
4	425-059501-1C20	CASSETTE KNOB – PLAY	1
5	425-059500-1C20	CASSETTE KNOB	5
6	177-023502-03	STEREO JACK	1
7	311-056281-6500	FRONT CABINET	1
8	303-000090-0201	MOUNTING POST REV.	6
9	420-056210-3890	VOLUME BUTTON RING	1
10	188-011522-01	TACT SWITCH	11
11	408-0562-141860	FUNCTION BUTTON	8
12	472-056211-1000	FUNCTION KNOB BASE	1
13	412-056212-2500	MUTE BUTTON	1
14	148-250001-101	LED	1
15	403-056214-2500	POWER/STANDBY BUTTON	1
16	133-6038LM-5A10	IR RECEIVER	1
17	199-000002-01	OIL DAMPER	1
18	408-056217-2490	CD OPEN BUTTON	1
19	148-030000-40	LED	3
20	134-056220-051	LCD	1
21	461-056222-1100	LCD REFLECTOR	1
22	461-056222-1100	LCD BRACKET	1
23	461-05920-1010	CASSETTE DOOR BRACKET	1
24	303-000082-0001	CASSETTE KNOB FIXER	1
25	218-057512-32	DECK THL-21SB-1592P	1
26	400-056211-2490	VOLUME KNOB	1
27	464-056206-1000	VOLUME KNOB SHAFT	1
28	420-056210-3890	VOLUME KNOB RING	1
29	463-05620V-1000	VOLUME KNOB ADAPTOR	1
30	188-011532-02	TACT SWITCH	2
31	057520-53J0	BATTERY DOOR	1
32	381-057510-53J0	BATTERY BOX	1
33	262-001510-10	RUBBER FOOT	8
34	156-582313-03	X'FORMER	1
35	211-003115-15	BELT MOTOR DIA	1
36	199-000060-02	MOTOR PULLY	1
37	322-059561-53J0	REAR CABINET	1
38	177-070000-011	SPEAKER TERMINAL	1
39	461-05923G-1010	GEAR BRACKET	1
40	460-056202-1000	CD DOOR GEAR	1
41	460-056201-1000	ADAPTOR GEAR	1
42	460-056200-1000	MOTOR GEAR	1
43	461-05622M-1000	MOTOR BRACKET	1
44	143-450220-03	MOTOR	1
45	213-000005-16	CUSHION RUBBER	4
46	219-DA11BV-ZS	CD MECHANISM	1
47	303-000072-1301	DUST COVER	1
48	202-082201-01	HEAT-SINK	1
49	238-056200-01	CASS KNOB COVER	1
50	183-100060-02	FERRITE BAR	1
51	374-059240-53J0	CD BRACKET	1
52	371-059221-6501	CD DOOR	1
53	375-059200-8KT0	CD DOOR LENS	1

ITEM	PART NO.	DESCRIPTION	QTY
54	238-056200-11	CASS DOOR DECORATION	1
55	188-000402-00	LEAF SWITCH	1
56	461-000050-01	Cd pcb mounting bracket	1
57	461-000051-01	Cd pcb mounting bracket	1
58	188-012721-01	AC POWER SWITCH	1
P1	173-059205-01	HEARPHONE JACK BOARD	1
P2	173-056303-01	FUNCTION KEY BOARD	1
P3	173-056302-0102	USB SOCKET BOARD	1
P4	173-056301-09	MEMORY CARD BOARD	1
P5	173-056220-0102	A/F+R/P+5W BOARD	1
P6	173-056656-0101	R/P BOARD	1
P7	173-056651-0102	MCU+CD SERVO BOARD	1
P8	173-056209-01	BACK LIGHT BOARD	1
P9	173-056304-01	VOLUME BOARD	1
P10	173-056205-0101	VOLUME LIGHT BOARD	1
S1	203-300200-10	SCREW 3X10 PA	44
S2	203-300200-12	SCREW 3X12 PA	7
S3	203-350800-14	SCREW 3.5X14 PWA	4
S4	207-261600-10	SCREW 2.6X10PWB-10W	4